

GRADE

4

The Summer Activity Book

to help your child succeed in school

New!

- ✓ New stories and related comprehension activities
- ✓ Make a working Volcano model!
- ✓ Removable "volcano facts" charts
- ✓ Teacher reviewed & recommended!

Fun, skill-building activities

- ✓ Word & Math Games
- ✓ Science Projects
- ✓ Brain Teasers

AMAZING SAVINGS
\$1.99

What's Inside?

Dear Parents,

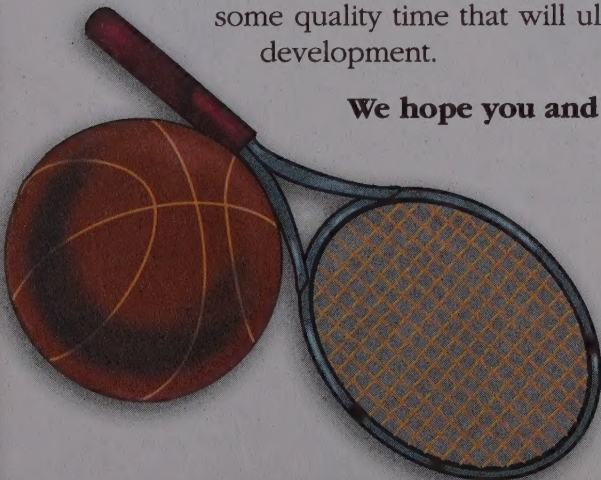
Are you aware that students can lose up to 25% of their reading and math skills during the summer vacation break away from academics*? While the freedom away from school during the summer break can be a wonderful time in your child's life, the reality is children will experience summer learning loss if they don't practice the skills they developed during the school year. That is why we created Summer Vacation®, a valuable investment in your child's future. Summer Vacation is a fun, entertaining educational program to help your child review skills learned during the previous school year and prepare them for the challenges of the next.

This 4th grade activity workbook has been thoroughly reviewed and recommended by an esteemed panel of teachers. It is packed with fun, skills-based activities for every day of the summer. Some of the activities in this book include:

- New chapter story with fun reading comprehension activities
- New progressive project - "Make a Working Volcano Model"
- New removable "volcano facts" charts
- Addition, subtraction, multiplication, division and their relationship to each other
- Multiplication and division through 12s tables
- Addition and subtraction of fractions
- Fractions and their relationship to decimals
- Usage of math symbols and place value up to 100,000s column
- Measuring perimeter and area
- Phonics, grammar and punctuation exercises
- Science projects
- World geography
- Arts and crafts activities

We suggest that you work with your child as necessary to complete the activities in this workbook. It may be beneficial to pick a certain time each day to work on the activities. This consistency will help make participation a habit, and will provide some quality time that will ultimately assist with your child's educational development.

We hope you and your child enjoy Summer Vacation®!



*Source: Harris Cooper, professor and chairman of the psychology department at the University of Missouri at Columbia.

Summer Vacation® Teacher Review Panel

Our panel of distinguished educators was instrumental in ensuring that the Summer Vacation® program offers your child maximum educational benefit. This panel provided key ideas and feedback on all aspects of our workbook series. We welcome your feedback.

Please contact us at:

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Cathy Cerveney, Baltimore, MD
Maryland Teacher of the Year, 1996
Fifth-grade teacher; Integrated
Language Arts curriculum writer
Served on Maryland's Professional
Standards and Teacher Education Board



Norma Jackson, Keller, TX
Texas Teacher of the Year, 1999
On special assignment as District Writing
Specialist for grades K-5
Second-grade teacher
Summer Activity Writing Specialist



Becky Miller, Mason, OH
Gifted Coordinator for Mason City Schools
Taught elementary grades 3 and 4
Adjunct Professor at
Xavier University



Laurie Sybert, Lake Ozark, MO
Missouri Teacher of the Year, 1999
Second-grade teacher
Elementary Science coordinator
Fulbright Teacher Scholar



Jenlane Gee Matt, Modesto, CA
California Teacher of the Year, 1988
National Teacher of the Year finalist, 1989
Third-grade teacher



Gemma Hoskins, Bel Air, MD
Maryland Teacher of the Year, 1992
Technology Coordinator for school
Former fifth-grade teacher and
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Charles Mercer, Washington, DC
District of Columbia Teacher of the Year, 1999
Worked at NASA's Education Program Office
Elementary Science resource
teacher, PK-6



Denise Johnson, New York, NY
Teacher Center Specialist in Manhattan
Previously taught grades 4-8
Instructor at Brooklyn College



Richard Scott Griffin, Mount Holly, NC
North Carolina Teacher of the Year, 1996
Teaches grades 4-6—all subject areas
Served as Teacher Advisor to State Board
of Education



Rob O'Leary, Sidney, OH
School principal
Former fourth-grade teacher
Fellowship Award recipient from
Wright State University



Bruce Fisher, Arcata, CA
California Teacher of the Year, 1991
Teacher for 23 years at
Fortuna Elementary
Distinguished Teacher in Residence
at Humboldt State University

Getting Ready for Fourth Grade

As a third grader, your child entered the world of abstract thinking and started making connections between reading and other classroom learning experiences to his or her own life experiences. Your third-grade graduate may be able to:

- write complex sentences, using more varied punctuation and capitalization.
- demonstrate good literal recall when reading to identify main idea, plot, characters and sequence.
- make inferences and predictions for story outcomes while reading.
- distinguish between fact and opinion.
- use reference materials, such as encyclopedias, atlases and dictionaries, as source material for writing.
- write paragraphs to include a topic sentence and main ideas supported by details.
- identify patterns, and establish and apply the pattern's rule.
- read a map, calendar or time line to answer questions.
- find the perimeter of a given shape.
- compute multidigit addition and subtraction problems with regrouping.
- multiply numbers to 9×9 , and solve related division facts.
- use standard and metric units.
- compare and order whole numbers.

Grade 4 Skills

In the fourth grade, reading will become more important, as skills are applied to reading in the content areas. Students will be expected to practice reading, writing, listening, speaking and research skills in all areas of study. Your child, already proficient in basic math skills, will develop conceptual understanding and become a skillful problem solver. By the end of the fourth grade, your child may be able to:

- identify and discuss parts of speech.
- read and discuss different writing genres (mystery, nonfiction, fantasy, myths, legends, autobiographies, historical fiction, and poetry).
- know how and when to use the dictionary, glossary and other resource materials.
- classify sentences as declarative (statements), interrogative (questions), exclamatory (exclamation), or commands.
- provide synonyms, antonyms and homonyms for given words.
- identify cause and effect.
- use context clues to decode unfamiliar vocabulary.
- recognize prefixes, suffixes and roots of English words.
- add and subtract fractions and decimals.
- identify patterns in multiplication and division sentences.
- multiply and divide by multidigit numbers.
- compute area and perimeter.
- explore percentages and their relationship to fractions and decimals.

How You Can Help

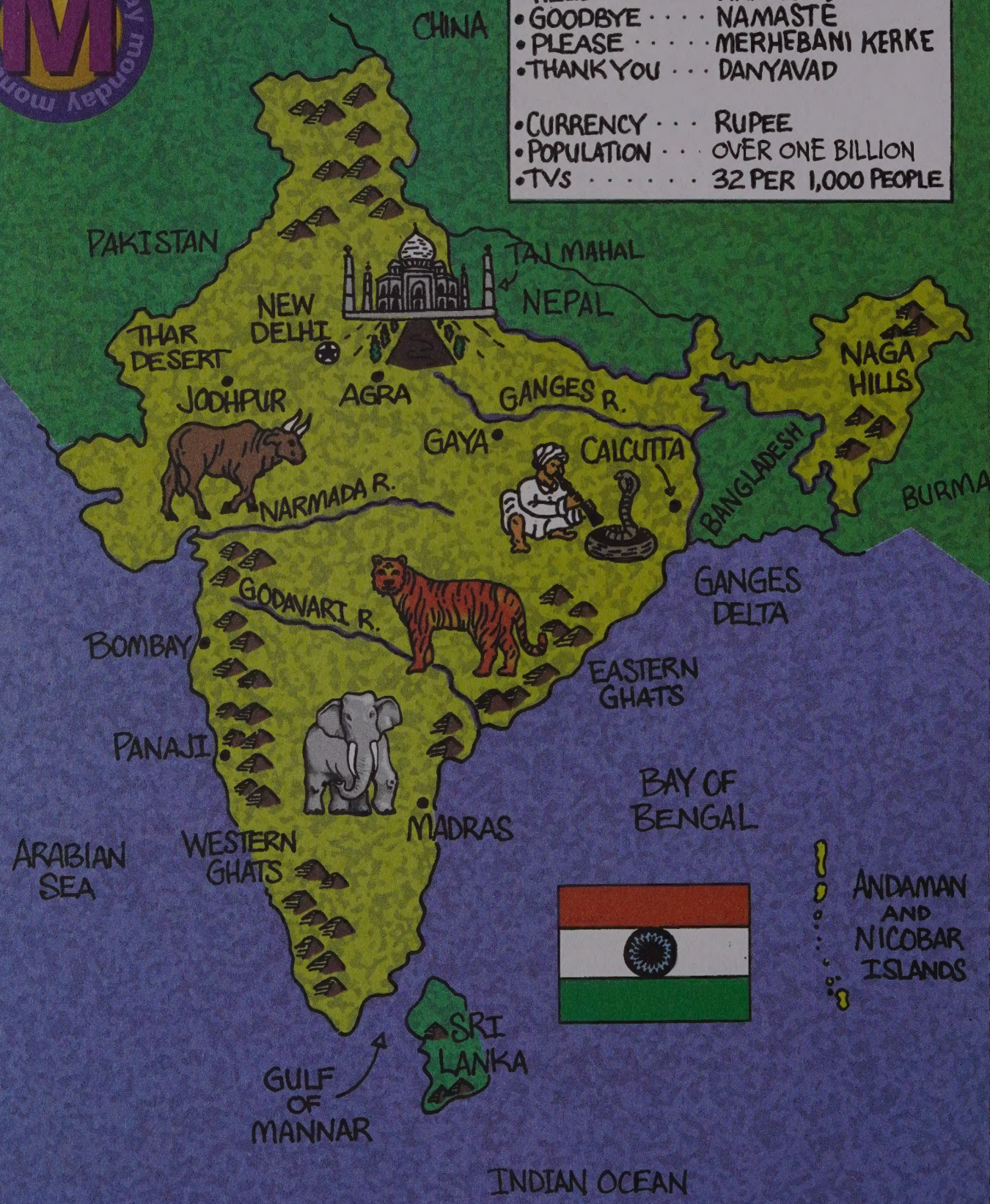
You can help prepare your child for fourth grade by making this Summer Vacation® workbook a regular part of your daily routine. Additionally, encourage your child to share the stories in this workbook. Get involved as your child constructs the volcanoes, and assist with additional research and completion of written activities. The Summer Vacation workbook is designed to help your child retain the skills that he or she developed in third grade and to prepare him or her for the challenges of fourth grade.



ENGLISH

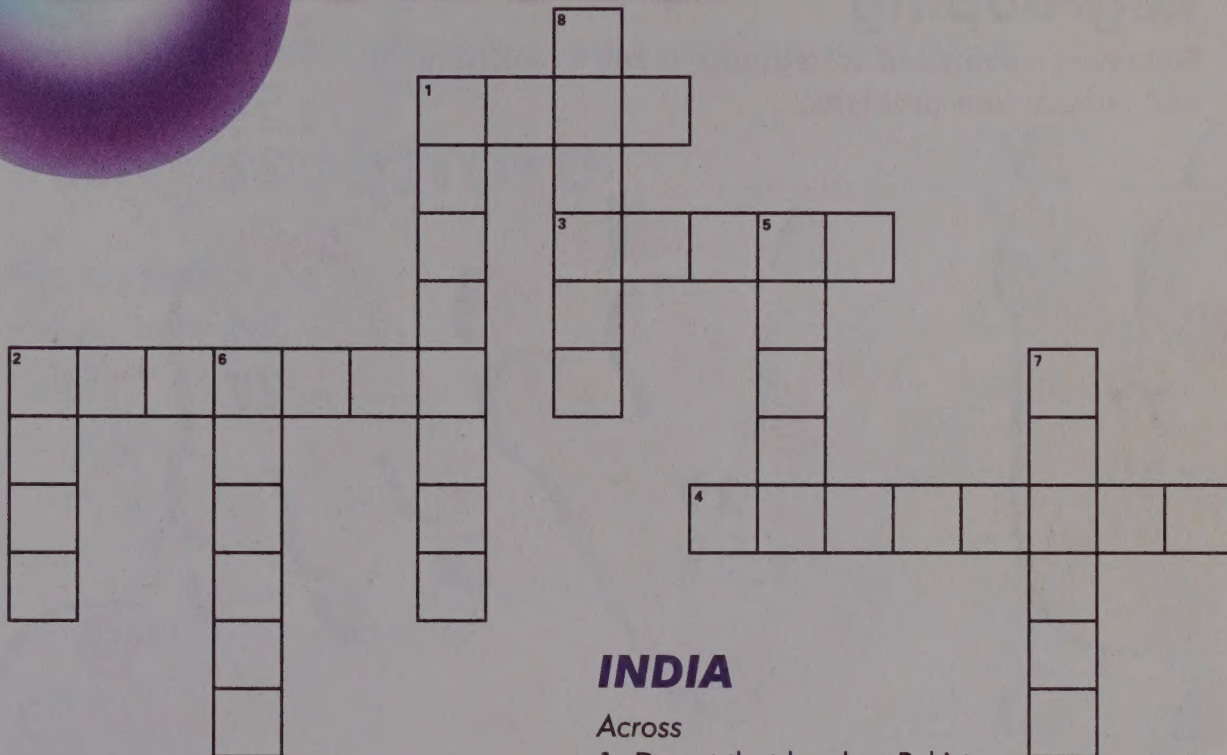
HINDI

- | | |
|------------------------|---------------------|
| • HELLO | NAMASTÉ |
| • GOODBYE | NAMASTÉ |
| • PLEASE | MERHEBANI KERKE |
| • THANK YOU | DANYAVAD |
| | |
| • CURRENCY | RUPEE |
| • POPULATION | OVER ONE BILLION |
| • TVS | 32 PER 1,000 PEOPLE |



India!

Crossword



INDIA

Across

1. Desert that borders Pakistan
2. River that runs south of Jodhpur
3. Eastern and Western _____
4. Island to the south

Down

1. Landmark
2. Hills in the eastern-most part of India
5. Endangered animal
6. Gulf between India and Sri Lanka
7. Eastern Bay
8. Sacred river



Facts About India

India is located in South Asia. The capital is New Delhi. India has numerous mountain ranges including the Himalayas, Eastern Ghats and Western Ghats. Located north of the sacred Ganges River is the Taj Mahal, a world famous landmark of India. The tiger, which is an endangered animal, is native to India.

Addition and Subtraction Regrouping

Sometimes you need to regroup to solve addition and subtraction problems.

Examples

$$\begin{array}{r} 1 \\ 7 \cancel{8} 3 \\ - 56 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 1 \\ 8 \cancel{7} 4 \\ + 19 \\ \hline 93 \end{array}$$

①

$$\begin{array}{r} 77 \\ - 68 \\ \hline \end{array}$$

②

$$\begin{array}{r} 39 \\ + 39 \\ \hline \end{array}$$

③

$$\begin{array}{r} 84 \\ - 27 \\ \hline \end{array}$$

④

$$\begin{array}{r} 23 \\ + 67 \\ \hline \end{array}$$

⑤

$$\begin{array}{r} 99 \\ + 12 \\ \hline \end{array}$$

⑥

$$\begin{array}{r} 63 \\ - 59 \\ \hline \end{array}$$

⑦

$$\begin{array}{r} 45 \\ + 56 \\ \hline \end{array}$$

⑧

$$\begin{array}{r} 100 \\ - 46 \\ \hline \end{array}$$

⑨

$$\begin{array}{r} 52 \\ - 18 \\ \hline \end{array}$$

Arts & Crafts

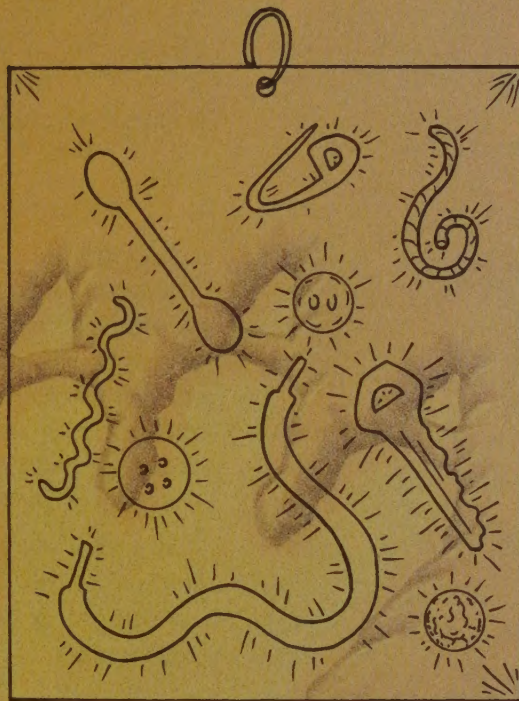
Adult supervision may be required.



Foil Sculpture

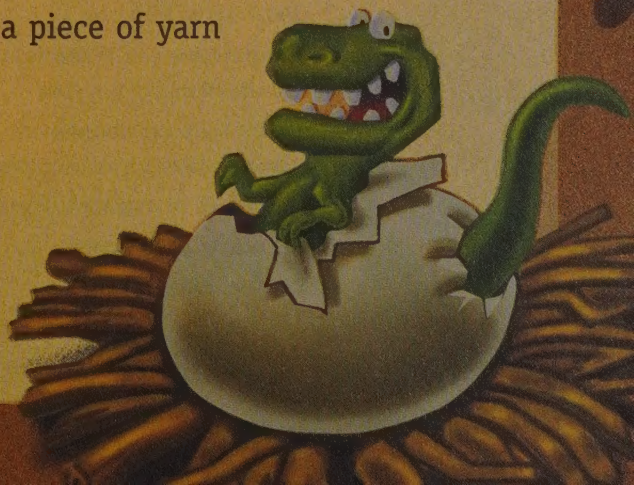
Materials:

- aluminum foil
- glue
- cardboard
- tape
- assorted objects:
key, cotton swab, length of string, coin,
button, safety pin, and so on
- yarn
- hole punch



Directions:

1. Collect small objects from around the house. Find ones that are relatively flat.
2. Glue the objects to a piece of cardboard.
3. Cover the cardboard with aluminum foil.
4. Secure the foil to the back of the cardboard with tape.
5. Press each object and rub your fingers around it so that it stands out. Be careful not to push too hard or foil will tear.
6. Punch a hole in the top of the cardboard. Tie a piece of yarn through the hole and hang your sculpture.





Volcanoes: Research

Adult supervision is recommended.

Introduction to the Project

During the next 12 weeks, your child will learn about the different types of volcanoes. The research opportunity presented throughout this project will help your child discover this geological process and its effects on the surrounding environment. Your child will have the opportunity to make papier-mâché models of three types of volcanoes and conduct various volcano-related experiments. These processes will help your child practice following directions and using his or her scientific observation and experimentation skills.

You may want to supervise your child throughout the project. You can help him or her with the papier-mâché process because using the right consistency of paste is important to the success of the models and experiments.

Master Materials List

old newspapers

water

1 $\frac{1}{2}$ c. (354.9 ml) flour

$\frac{1}{2}$ c. (118.3 ml) sugar

masking tape

saucepan

3 large sheets of cardboard or plywood,
or 3 foil trays, at least 24 in. $\times$ 16 in.
(60.9 cm $\times$ 40.6 cm)

non-water-based craft paints in white,
brown, black, and green

4 medium-size paintbrushes or
disposable foam applicators

paper towels or rags for cleanup

2-liter plastic soda bottle

5 raisins or other dried fruit

shallow cardboard box

scissors

damp dirt or sand

pen or pencil

2 foam or plastic plates

2 foam or plastic cups

2 plastic straws

$\frac{3}{4}$ c. (177.4 ml) water, milk, or juice

$\frac{3}{4}$ c. (177.4 ml) honey, vegetable oil,
or corn syrup

plastic or paper cup, or an
empty film cylinder

1 T. (14.8 ml) + 1 $\frac{1}{2}$ tsp. (4.9 ml)

baking soda

$\frac{1}{4}$ c. (59.1 ml) + 2 T. (29.6 ml) vinegar

Directions

1. To begin learning about volcanoes, read about them from sources at the library or from an encyclopedia at home. You also can use web sites such as www.volcanoworld.org
2. Find out about the three types of volcanoes. What are some similarities among the types? What are some differences? Write notes in the chart below.

Beneath the Earth's land and water is a thin layer of rocky material called the Earth's *crust*. Hot, melted rock, or *magma*, can travel up from the center of Earth and burst through holes and cracks in the crust. This is how a *volcano* forms. *Active* volcanoes are those that erupt fairly often. Earth has more than 1,500 active volcanoes!

Volcanoes are found on land and under oceans all over the world. Volcanoes are grouped by shape and by the way they erupt. There are three types of volcanoes: composite, or *stratovolcano*; cinder cone; and shield.

Types of Volcanoes	Similarities	Differences
Composite/ Stratovolcano		
Cinder Cone		
Shield		



Journal

Use a blank sheet of paper if you need more space.

The President wants you to decide whether to change the weekend from two days to three. What decision will you make? Give one reason as to why you made this decision.



weird science

In a five-month span
between 1987 and 1988,
small pink frogs rained
from the sky over parts
of Great Britain!

Matching Equations

Match the addition and multiplication problems that share the same answer.

1. 5×12

2. 9×8

3. $32 + 18$

4. $22 + 32$

a. 10×5

b. $12 + 60$

c. $17 + 43$

d. 9×6

Riddle Me This?

Journal

The Taj Mahal, one of the "Seven Wonders of the World," is within my boundaries. If you add an "n" to the end of my name, I am a native people.

What country am I?

I'm thankful today because...

Math Games

Do you see a pattern? Fill in the blanks with the correct number to complete the pattern.

1.

4

7

11

22

2.

12

23

48

62

3.

7

10

14

25



Wanted: Volunteers

Chapter 1



Celeste, Vega and Tripp sat on the front stoop of Vega's apartment building. They ate ice cream cones while brainstorming ways to end their summer boredom. The three had been friends since Mrs. O'Leary's first grade, when they discovered that their favorite sandwich was peanut butter and pickles. Celeste, Vega and Tripp had had their share of fun. Tripp always found ways to carry out Vega's grand plans. Celeste, their artistic sidekick, helped bring beauty to each adventure. So it was unusual that after only one week of summer vacation, the trio had exhausted all that Springville had to offer for summer fun.

Vega, trying hard to slurp the fast drip of her ice cream cone, tossed out suggestions to Celeste and Tripp.

"We could play freeze tag in the fountain at the park," offered Vega.



"Keep still, Vega. How am I supposed to capture your good side?" Celeste said as she added the jaw line to the sketch she was making of Vega.

"What good side?" Tripp questioned with a grin. "Anyway," he said, "we did that yesterday."

"There's a new exhibit at the art museum that we could go to see," Celeste volunteered.

Celeste's suggestion was met by Tripp and Vega rolling their eyes.

During this discussion, the mail carrier came and handed Vega the mail. A bright orange flyer, folded and addressed to "Resident," caught Vega's attention.

As she scanned the flyer, her eyes grew wide with excitement.



Chapter 1

Skill: Nouns



Find these nouns from the story in the Word Search.

flyer ice cream sketch carrier friends
ideas exhibit tag summer pickles

I	C	E	C	R	E	A	M	N	T	E	F
Y	L	G	N	S	A	E	J	S	N	L	B
E	C	S	U	M	M	E	R	E	Y	I	R
P	X	T	E	O	P	N	M	E	C	O	A
O	E	H	D	R	L	M	R	R	S	U	D
P	F	R	I	E	N	D	S	K	K	C	G
S	I	S	R	B	L	O	I	D	E	A	S
I	S	C	S	A	I	O	A	T	T	R	O
C	D	C	K	O	N	T	U	L	C	R	E
L	E	S	H	L	Y	A	R	B	H	I	S
E	T	C	I	O	E	D	W	Q	R	E	U
W	I	K	N	E	P	S	M	O	W	R	D



Challenge

Some nouns are general. *Room*, *car* and *woman* are general nouns. Other nouns are more specific. They name a particular person, place, thing, or idea. For example, *sunroom*, *convertible* and *agent* are specific nouns. Writing that includes specific nouns is usually more interesting than writing that includes only general nouns. Write a specific noun that could replace each of the following general nouns.

1. shoe _____
2. tree _____
3. street _____



Fix the Facts

Sneaky Sal stole his sister Suzie's diary. He accidentally ripped out some of the pages and they fell out of order.

Can you help Sal put the pages in order?

A.

I spoke with Mr. Juarez, my teacher, about Sal's idea. He said that a battery is a good idea and it will be a challenge for me to work on it.

B.

My brother Sal said that I shouldn't be making a volcano. He thinks I should make a battery instead. He's just my bratty brother. What does he know?

C.

I hate to admit it, but after talking with Mr. Juarez, I took Sal's advice and started making a battery. It actually works great and is the perfect project for the science fair. Maybe Sal is a lot smarter than I thought!

D.

My mom's helping me think of projects for the science fair. She said that a pizza box burglar alarm or a potato clock might be a good idea.

E.

I found out today that there's going to be a science fair at school. I really want to enter, but I don't know what to make!

F.

I started working on my project today. I didn't use my mom's idea, but came up with my own instead. A volcano! I'll need chicken wire, papier-mâché, paint, baking soda and vinegar.

1. _____

4. _____

2. _____

5. _____

3. _____

6. _____



MAZE



Name the Sentence Type

A statement tells someone something.

A question asks someone something.

A command tells someone to do something.

Label each sentence with statement, question or command.

1. Who ate the last cookie?

2. You are a good student.

3. Go to bed now.

4. I love to watch cartoons.

5. Where are my keys?

6. Do your homework.



Complete the Analogies

Analogies compare how things relate to each other.

Example: *Finger is to ring as foot is to shoe.*

Choose the correct word from the list to complete the analogies.

playground

hand

cake

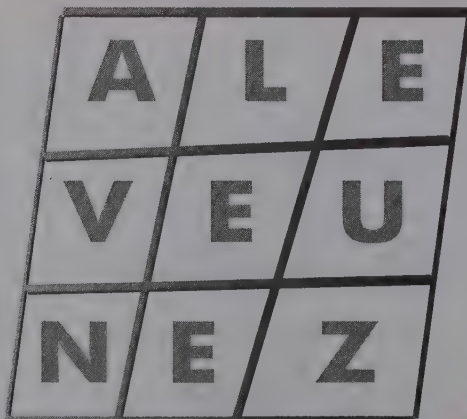
radio

1. Cheese is to pizza as frosting is to _____.
2. Flower is to garden as slide is to _____.
3. Wrapper is to candy as glove is to _____.
4. Cartoons are to television as music is to _____.

squarely speaking

Using each letter only once, find the country by connecting square to touching square. (You may use diagonals.)

Start with the letter V.



Recycling

Turn off your lights and water faucets when you're not using them. You'll save energy and cut down on your parent's bills, too!



Bug!

Creepy crawlies? Slimy and gross? No way! There are more than 800,000 different kinds of insects out there. There are so many, in fact, that scientists haven't even discovered them all yet!

This makes insects one of the more interesting animals to study. An insect is any bug that has six legs and three body parts: a head, thorax and abdomen.

Would you like to be an entomologist (en-toe-mall-o-just) for a day? An entomologist is a person who studies insects. You can learn a lot about insects through observation, that is, watching carefully and noticing details.

What you need:

- plastic or glass container with lid
- insect guide (you can get one from the library)
- pencil
- paper
- magnifying lens (optional)

What to do:

- 1) Poke holes in the lid of your container so the insect will have air.
- 2) Go outside and search for bugs! Try looking under rocks, logs, or other hiding places.
- 3) When you find one you like, carefully scoop it into your container. Include things you find near the insect like dirt, twigs, or leaves.
- 4) Find a quiet place where you can observe the insect. Be careful not to hurt or kill the insect.
- 5) For 10 minutes, try to notice everything you can about the insect by watching it carefully. Use the magnifying lens to see the insect better, but make sure you do this in the shade.
- 6) You can try drawing the insect. Make a list of your observations. Here are some things you may want to look for: colors, number of legs, wings, sounds, how it moves, eyes, mouth parts, and number of antennae.

What it does:

- Once you have all your observations, you can look up the insect in your guide. What other information can you find?
- When you have learned all about this insect, take it back to where you found it! Empty your container and find a new bug.

Remember to use the Scientific Method!

- 1) *Make your hypothesis.*
- 2) *Record your observations.*
- 3) *Draw your conclusions.*

- LANGUAGE ENGLISH
- CURRENCY POUND STERLING
- POPULATION OVER 59,000,000



SHETLANDS



ORKNEYS



OUTER HEBRIDES

ULLAPPOOL

SCOTLAND

INVERNESS

INVERARY CASTLE



OBAN

ATLANTIC OCEAN

DUNDEE

GLASGOW

SOUTHERN UPLANDS

NORTH SEA

NORTHERN IRELAND



YORK

IRISH SEA

LIVERPOOL

IRELAND

NOTTINGHAM

SEVERN R.

STONEHENGE

THE WASH

ST. GEORGE'S CHANNEL



BIG BEN

TOWER BRIDGE

WALES

BRISTOL CHANNEL

LONDON

THAMES

DOVER

ISLES OF SCILLY

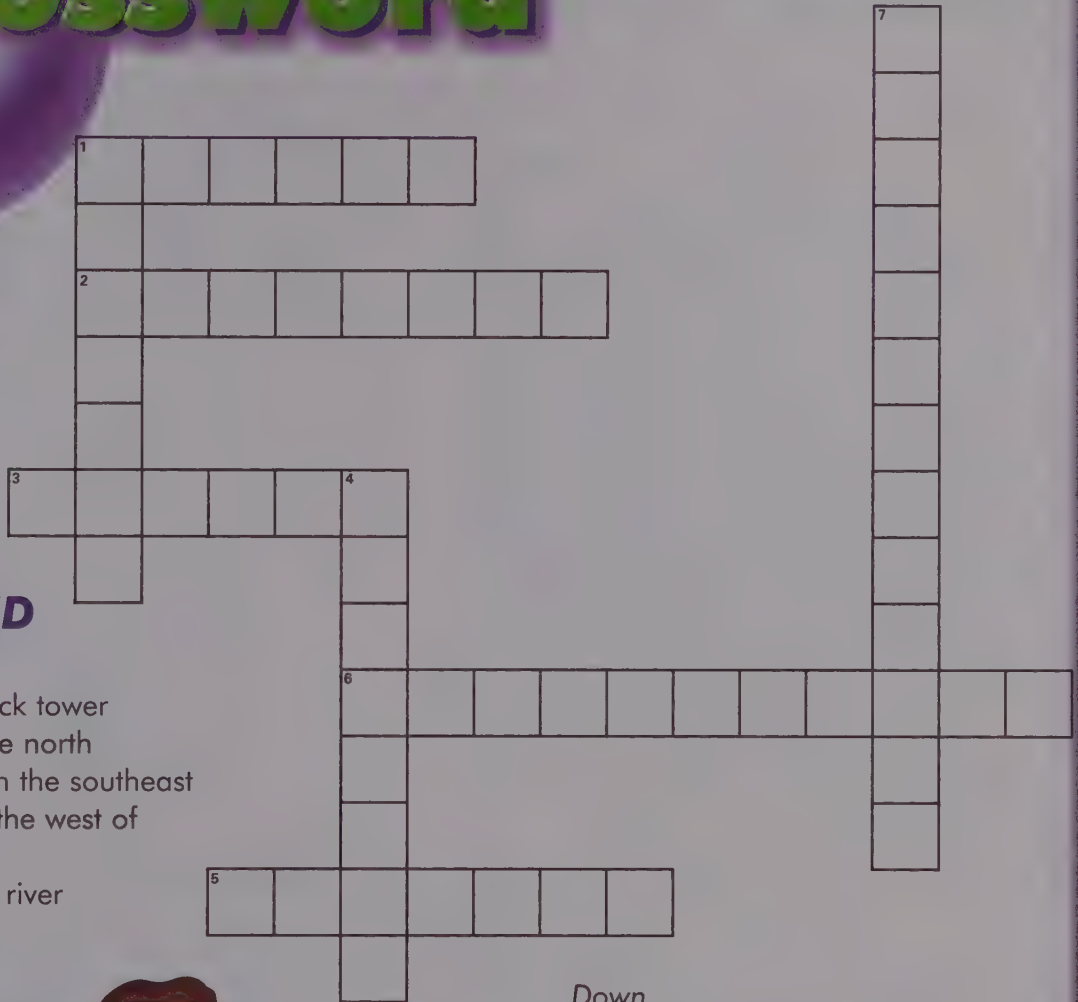
PLYMOUTH

ISLE OF WIGHT

ENGLISH CHANNEL

United Kingdom!

Crossword



ENGLAND

Across

1. Famous clock tower
2. Castle to the north
3. Major city in the southeast
5. Country to the west of
Liverpool
6. Built over a river

Down

1. Channel by Stonehenge
4. Not the South Sea
7. Islands west of Ullapool



Facts about the United Kingdom

The United Kingdom is comprised of England, Scotland, Wales and Northern Ireland. The English Channel, the North Sea, the Irish Sea and the Atlantic Ocean surround the United Kingdom. Located in the southeast is London, the capital. London has many famous landmarks including the famous clock tower, Big Ben, and the Tower Bridge, built over the Thames River. Scotland has many beautiful castles including Inverary.

Addition Puzzle

Solve the addition problems, then connect the numbers from lowest to highest. Put a star next to the numbers that match your answers.



1



142



313

406

201

99

262

①

$$\begin{array}{r} 465 \\ 102 \\ + 30 \\ \hline \end{array}$$

②

$$\begin{array}{r} 542 \\ 311 \\ + 32 \\ \hline \end{array}$$

492

2098

545

③

$$\begin{array}{r} 211 \\ 87 \\ + 15 \\ \hline \end{array}$$

④

$$\begin{array}{r} 178 \\ 17 \\ + 6 \\ \hline \end{array}$$

597

2056

1912

⑤

$$\begin{array}{r} 667 \\ 539 \\ + 204 \\ \hline \end{array}$$

⑥

$$\begin{array}{r} 316 \\ 152 \\ + 77 \\ \hline \end{array}$$

711

1410

802

1012

962

885

Arts & Crafts



Adult supervision may be required.

Commemorative Stamp Plate

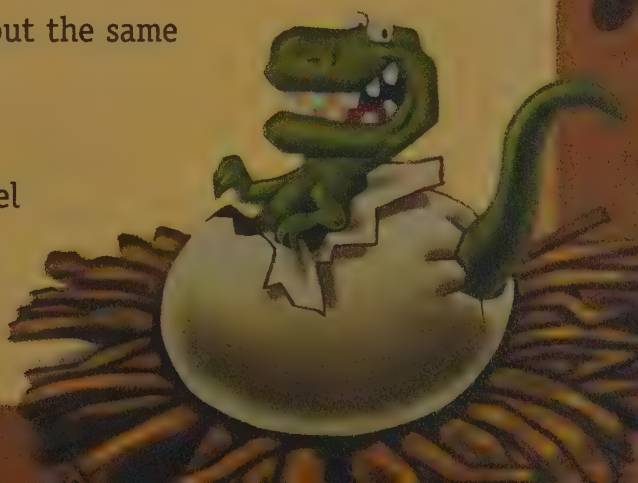
Materials:

- postage stamps
- paper plate
- white glue
- water
- small container
- paintbrush



Directions:

1. Collect new or used postage stamps.
2. To remove used postage stamps from an envelope, soak them in a pan of water. Soon the stamps will come off the envelope. Gently lay the postage stamps on a flat surface and allow them to dry.
3. Glue or stick the postage stamps all over a paper plate. Fill the plate completely.
4. Trim off the extra paper plate edges.
5. Put a little white glue in a container. Add about the same amount of water and stir.
6. Brush the glue solution all over the stamps.
7. When the plate is dry, set it in a tabletop easel or hang it.





Volcanoes:

Composite Volcano, Step 1

Adult supervision is recommended.

Materials

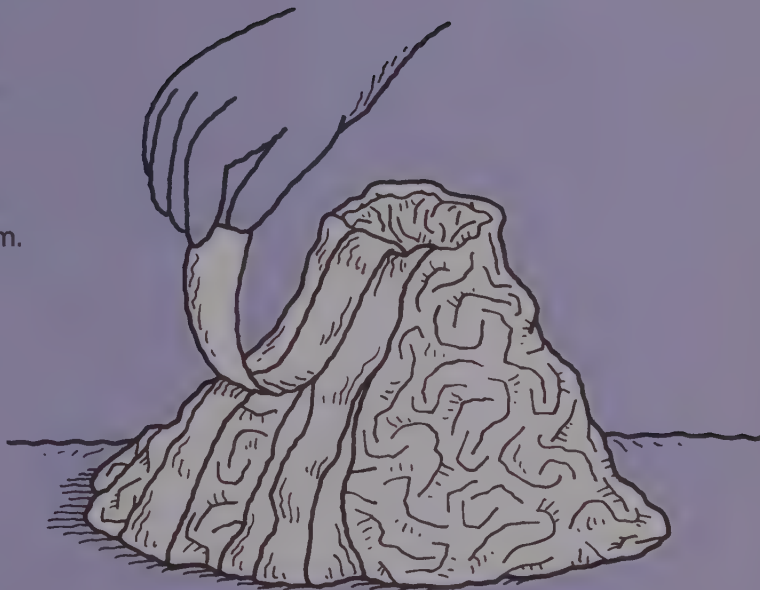
old newspapers
4 c. (946.4 ml) water
 (2 c. [473.2 ml] cold;
 2 c. [473.2 ml] boiling)
 $\frac{1}{2}$ c. (118.3 ml) flour
3 T. (44.4 ml) sugar
saucepan
masking tape
large sheet of cardboard
or plywood, or a foil tray,
at least 24 in. $\times$ 16 in.
(60.9 cm $\times$ 40.6 cm)

Composite volcanoes are the most common type of volcano in the world. They are built in layers by multiple eruptions. Most composite volcano eruptions begin with clouds of ash, which are created by gases in the magma. The gases escape so forcefully that they blast rock into billions of little pieces. As the eruption continues, the ash is replaced by *lava*, or magma that breaks through Earth's surface. The resulting composite volcano is made up of many layers of ash and lava.

Directions

1. Tear about 15 sheets of newspaper into 2-in. (5.1-cm) strips. Soak the strips in warm water.
2. Prepare the paste. Mix the flour with 2 c. (473.2 ml) of cold water in a bowl.
3. With an adult's help, boil 2 c. (473.2 ml) of water in a saucepan.
4. Add the flour mixture to the boiling water. Return to a boil.
5. Remove from heat and add the sugar.
6. Let this mixture cool for at least a half hour; it will thicken as it cools.
7. Ball up about fifteen pieces of newspaper (not the newspaper strips; they are still soaking). Pile them to form a tall cone shape with steep sides on the cardboard or plywood. An uneven, "bumpy" form will make a more realistic volcano. Hold the cone together loosely with a few pieces of masking tape. Keep a small opening at the top for the volcano's crater, or *vent*. Make sure the opening is large enough for a small plastic or paper cup or an empty film cylinder.

8. Remove the newspaper strips from the water one at a time. Drain excess water from each strip.
9. Dip one strip into the paste. Overlap it vertically on the volcano from the top to the bottom. Run the top edge of the strip over the rim of the vent and tuck it into the opening.
10. Repeat steps 8 and 9, overlapping the remaining strips vertically around the form.
11. Set the volcano form in a place where it can dry thoroughly for one to two days. Cover the paste and keep it in the refrigerator until you are ready for the next layer.
12. After the first layer has dried, prepare to add a second layer of newspaper strips to your model. Tear 15 more newspaper pages into strips. Soak the strips in warm water.
13. Repeat steps 8 and 9 until you have added an entirely new layer of newspaper strips.
14. Set your volcano in a safe place, and allow the second layer to dry thoroughly for another one to two days.



Extension

There are six types of volcanic eruptions—Plinian, Vulcanian, Hawaiian, Icelandic, Strombolian, and Peleean. At the library, read about these eruptions. Then, on the lines below, write the eruptions in order from least explosive eruption to most explosive eruption.

Journal

Use a blank sheet of paper if you need more space.

Everyone helps out in a family. One of the things I do to help is...



weird science

Spinach is famous for having iron and making you strong. In fact, spinach has no more iron than any other vegetable. In the 1950s, a food scientist miscalculated the iron in spinach and put his decimal point too far to the right, making everyone think that spinach had ten times as much iron than it had.

Place Value

Write the numbers in the correct places.

	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1						
2						
3						
4						

1. Six hundred eighty-two thousand four hundred and five
2. Nine hundred ninety-six thousand eight hundred twenty-seven
3. Seventy thousand five hundred and eleven
4. Three hundred thousand and fourteen

Riddle Me This?

Journal

The first part of my name rhymes with fire.
The second part of my name means the solid part of the earth's surface.

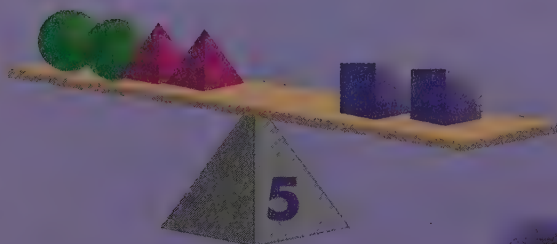
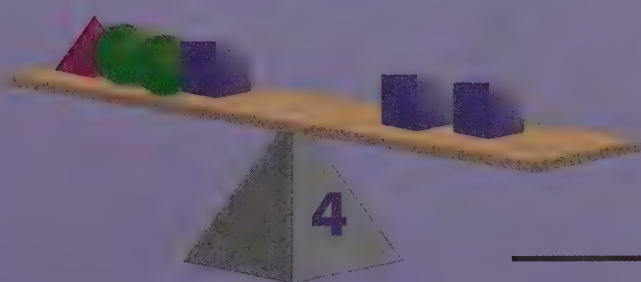
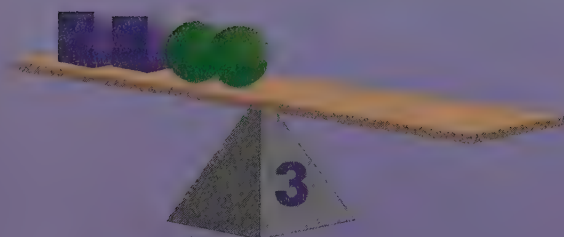
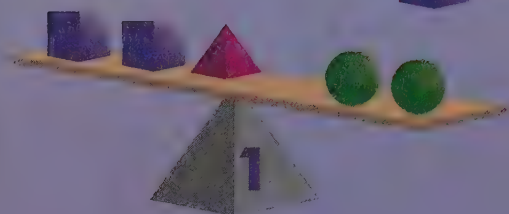
What country am I?

I'm thankful today because...

Math Games

Each shape has a value. Scales 1 and 2 are in perfect balance.
How many triangles are needed to balance scales 3, 4 and 5?

 = 4  = 2  = 5



Wanted: Volunteers

Chapter 2

"Calling All Volunteers," read the first line of the brightly colored flyer.

Vega read the rest of the flyer aloud. "Springville Community Center challenges residents of all ages to bring their talents center stage and volunteer their time by creating and leading new summer programs. All serious proposals considered."

The mention of a challenge was enough to send Vega's mind into overdrive. Vega began to gently twirl a strand of her hair. Thoughts of how this challenge could be met filled every corner of her brain. Tripp and Celeste recognized this motion as the beginning of another of Vega's grand schemes.

"Guys, I know how we can help. All we have to do is..." started Vega.

"I know where this is going," interrupted Celeste. "Before you go any further, let me get my notebook and a pencil so we can start organizing your ideas."

Tripp was sure that this was going to bring much-needed excitement to their summer.

Celeste returned with a notebook and pencil. With heads together, the trio began sharing ideas of how they could help bring volunteers to the Community Center. They even talked about how they could volunteer. Finally, they decided they would help recruit community members to lead classes showcasing their cultural heritage with treasures or art. They went straight to work.

To start, Vega called and scheduled an appointment to present their proposal. Celeste began making posters to illustrate their plan. She used "It's Your Community Center. It's Up to You." as their slogan. Tripp organized a list of interesting people to recruit.

The friends were ready to present their ideas.



Chapter 2

Skill: Vocabulary



Choose the correct definition of each word from the story. Circle the letter in front of your choice.

1. proposal

- a. an officer
- b. stating something for consideration
- c. to display
- d. equal in size

2. heritage

- a. native dress
- b. an accent
- c. legacy, tradition
- d. country of birth

3. illustrate

- a. to follow a pattern
- b. to explain with drawings
- c. shining brightly
- d. to copy

4. slogan

- a. catchy phrase
- b. directions
- c. poster
- d. whispering

5. trio

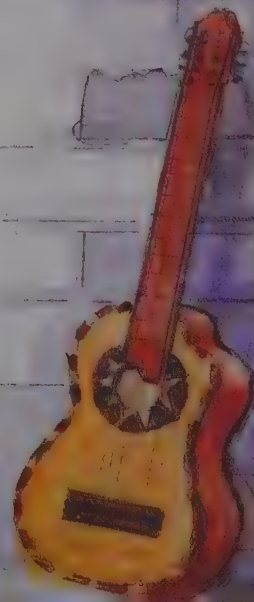
- a. over and over again
- b. a large number
- c. silently
- d. a group of three

6. cultural

- a. helping plants and animals grow
- b. in a certain direction
- c. relating to the customs of a group
- d. relating to beauty

7. recruit

- a. to enlist new members
- b. to send
- c. to be quiet
- d. to be uncertain





Follow My Lead

Starting with the first word, follow the step-by-step instructions.
The last step should give you the final answer to the question.
The first one has been done for you.

What country exports these?

MEDICINES

1. Add "BIG" to end
2. Change third consonant to "R"
3. Change "MED" to "RAT"
4. Change "S" to "A"
5. Insert "T" after third vowel
6. Move fourth vowel to second letter
7. Move third vowel after second "T"
8. Move sixth consonant to spot #5
9. Remove sixth vowel
10. Move second "A" two spaces to the left
11. Move last letter to front

MEDICINESBIG



MAZE



Compound Words

Mix up the compound words below and make up your own.
An example is done for you.

backyard
moonlight
seashore

nighttime
butterfly
bedroom

horseshoe
sunshine

bedtime



Synonym Word Search

Synonyms are words that mean the same thing. Find the synonyms for each word listed in the word search below. The first one is done for you. The hidden words might be horizontal, vertical or diagonal.

H	S	O	S	W	Y	C	F	M	W	T	I	C	O
D	C	F	L	A	B	O	M	K	D	E	C	L	A
V	A	T	F	T	M	I	T	D	H	A	K	U	Y
B	R	N	E	Q	P	M	O	G	C	C	N	F	A
E	Y	X	G	J	I	H	S	M	I	H	P	U	F
T	N	K	H	E	A	D	V	S	R	E	B	R	A
D	C	L	F	U	R	R	Y	C	A	R	E	I	T
H	W	O	U	I	D	O	C	T	O	R	F	O	H
S	A	H	F	O	M	B	U	F	I	G	H	U	N
P	I	P	K	Q	R	E	M	S	Z	M	L	S	I
T	N	G	P	C	A	W	D	Y	L	I	T	U	D
G	R	E	O	Y	B	T	S	O	J	W	B	D	H
V	P	S	Z	L	G	G	G	G	G	G	G	G	G

Example:

ill ~~happy~~ **sick**

cheerful

angry

professor

harmful

hairy

physician

frightening

squarely speaking

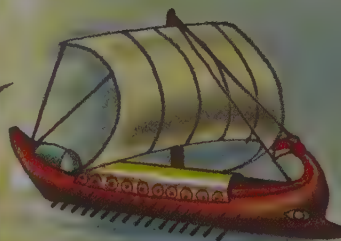
Using each letter only once, find the country by connecting square to touching square. (You may use diagonals.)

Start with the letter A.

N	E	R
T	A	G
I	N	A

Recycling

Avoid using pesticides and other chemicals on your grass and yard. They are harmful to the water we drink, to kids who play on the lawn, and the animals who walk on it.



Static Electric Circus

You can make paper jump into the air like magic with science! You've heard the phrase "opposites attract"? Well, now you can see for yourself.

What you need:

- small plastic comb
- paper torn into little bits
- wool cloth
- a balloon

What to do:

- 1) Lay the bits of paper out on a table top.
- 2) Rub the plastic comb back and forth on the cloth very quickly.
- 3) Slowly bring the comb close to the papers without touching them.

What's happening:

- When you rub the comb, you give it a positive electrical charge.
- The bits of paper do not have a charge, and are attracted to the comb.
- You might notice some bits of paper flying off the comb. This happens because once the paper touches the comb, it can get the same charge as the comb. The two objects, both with positive or negative charges, will repel one another, but two objects with different charges will be attracted to one another.

Try this:

- 1) You can observe the same static electric charge by rubbing an inflated balloon on your hair.
- 2) Try this in front of the mirror. What does the hair do once you have given the balloon a charge?
- 3) Rub some more. Now see if the balloon will stick to a wall.
- 4) What other things can you attract with your charged balloon?

Remember to use the Scientific Method!

- 1) *Make your hypothesis.*
- 2) *Record your observations.*
- 3) *Draw your conclusions.*



ENGLISH	ARABIC
• HELLO	AHLAN WA SAHLAN
• GOODBYE	SALAAM
• PLEASE	MIN FADLAK
• THANK YOU	SHUKRAN
• CURRENCY	EGYPTIAN POUND
• POPULATION	OVER 72,000,000

MEDITERRANEAN SEA



ISRAEL

JORDAN

SAUDI ARABIA

ALEXANDRIA

SUEZ CANAL

SIWA

GIZA

CAIRO

SINAI

SPHINX

NILER

GREAT SAND SEA

KING TUT

ASYUT

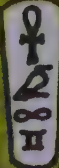
GULF OF SUEZ

RED SEA

WESTERN DESERT

DAKHLA OASIS

VALLEY OF THE KINGS



ASWAN

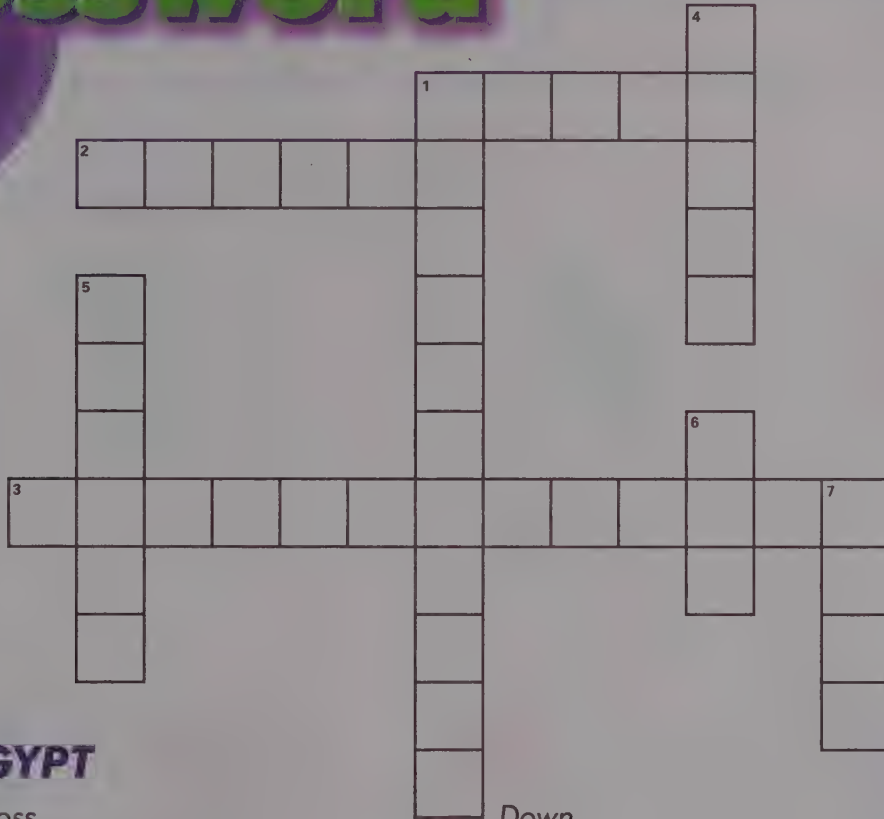
LAKE NASSER

ABU SIMBEL

SUDAN

Egypt!

Crossword



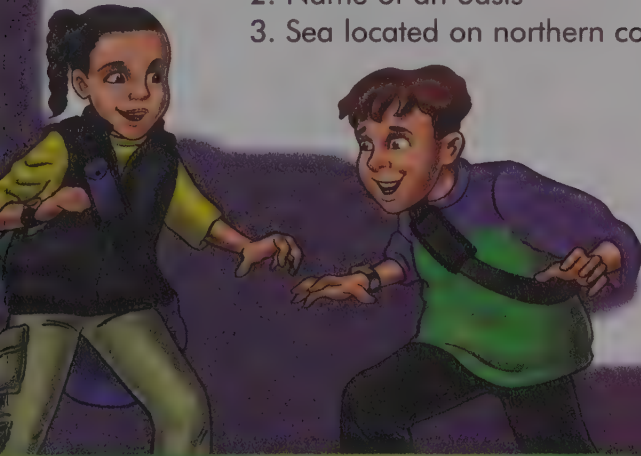
EGYPT

Across

1. Northeast peninsula
2. Name of an oasis
3. Sea located on northern coast

Down

1. Country across the Red Sea
4. Country that borders to the west
5. Animals used for travel
6. Sea that borders to the east
7. Long river that runs through Egypt



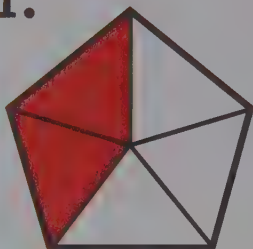
Facts about Egypt

Egypt is located in the northeastern corner of Africa. Israel, Libya and Sudan border it. The Red Sea borders Egypt on the East near the Sinai Peninsula. The capital is Cairo. Famous landmarks in Egypt include the Nile River, which runs through Egypt, the pyramids, the Sphinx and the tomb of King Tut. Camels are used for travel in Egypt.

Fraction Comparisons

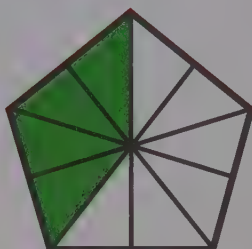
Write the fraction for each picture. Use < (less than), > (greater than), or = (equal to) to compare the fractions. The first one has been done for you.

1.



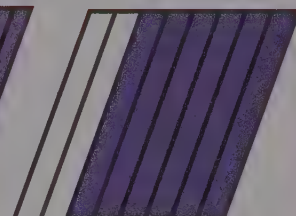
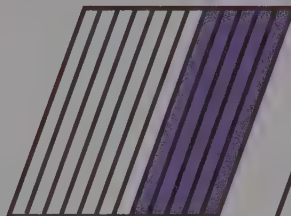
$$\frac{2}{5}$$

=

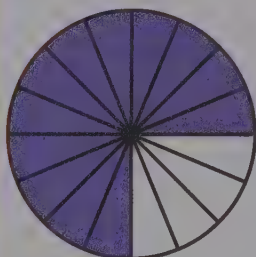


$$\frac{4}{10}$$

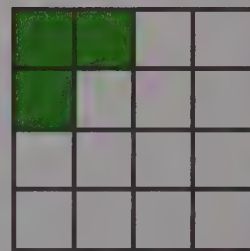
2.



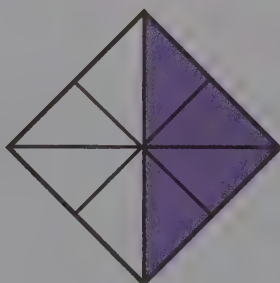
3.



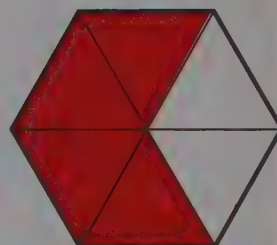
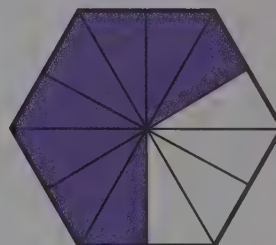
4.



5.



6.



Arts & Crafts



Adult supervision may be required.

My Phone Book

Materials:

- construction paper
- plain paper
- scissors
- white glue
- stapler
- yarn
- markers



Directions:

1. Fold a piece of 12" (30 cm) x 18" (46 cm) construction paper in half to make a book.
2. Place some plain pieces of paper inside the book and staple the book together.
3. Cut out other pieces of construction paper and decorate the front cover of the book to look like a telephone.
4. Glue on yarn to create the phone cord.
5. Now use your book to record your friends' phone numbers and e-mail addresses.





Volcanoes:

Composite Volcano, Step 2

Adult supervision is recommended.

Materials

non-water-based craft
paints in white, brown
and black
medium-size paintbrushes
or disposable foam
applicators (one brush
for each color, if possible)
paper towels or rags
for cleanup

Directions

1. Review your research about composite volcanoes. Refer to photographs of composite volcanoes such as Mount Saint Helens as you paint your model.
2. Paint your composite volcano model. You might want to paint your volcano different shades of brown and black.
3. Because stratovolcanoes are so tall, many are topped with layers of ice and snow. Use white paint to add snow and ice to the top of your volcano.
4. Set the volcano aside for 24 hours to dry thoroughly.

Dormant volcanoes are those that have been quiet for a long time, maybe even for centuries. However, they still show signs of erupting again. These signs may include rising steam or lava bubbling in the volcano's crater. If a volcano hasn't shown signs of activity for a very long time, it is known as *extinct*.

Mount Saint Helens, a stratovolcano in Washington, erupted in 1980—for the first time in over 120 years! The explosion lasted nine hours and ejected millions of tons of ash 15 mi. (24.1 km) into the air.



Extension

Did you know that some volcanic eruptions can be predicted? Warning signs such as small earthquakes help scientists predict when an eruption will occur. Find out more about these warning signs at your local library. Write a paragraph about your findings on the lines below.

Journal

Use a blank sheet of paper if you need more space.

Lucky you, you just won the megabucks lottery! What will you do with all that money?



weird science

In 1964, an earthquake hit Prince William Sound in Alaska and was so strong that people in Hawaii could feel the aftershock!

Fractions As Decimals

Match the fraction to the equivalent decimal.

1. $\frac{6}{10}$

a. $\frac{8}{10}$

2. .8

b. .3

3. $\frac{3}{10}$

c. $\frac{5}{10}$

4. .5

d. .2

5. $\frac{2}{10}$

e. .6

Riddle Me This?

Journal

The Sphinx and the glorious pyramids rest on my sands. I contain many mysteries, mummies and ancient artifacts.

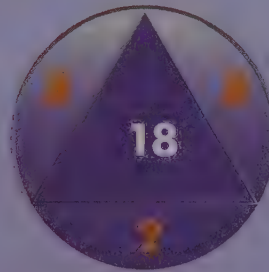
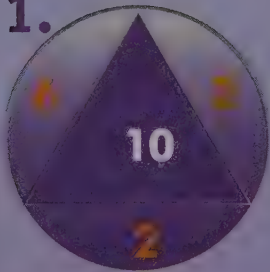
What country am I?

I'm thankful today because...

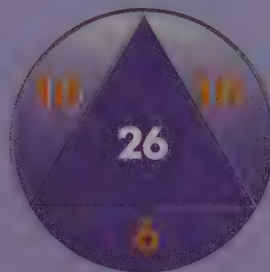
Math Games

Do you see a pattern? Fill in the blanks with the correct number to complete the pattern.

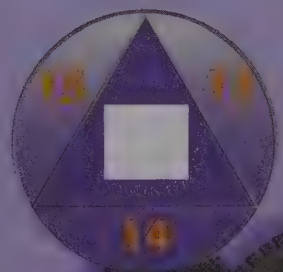
1.



2.



3.



Wanted: Volunteers

Chapter 3

Celeste, Tripp and Vega nervously waited to meet with Pauline Darcy. Ms. Darcy had been the director of the Community Center for the last four years.

Looking very professional and wearing their Sunday best, they carried their posters into Ms. Darcy's office. Each took a turn describing a piece of their proposal.

"I would love to do all of your ideas," said Ms. Darcy with a smile. Tripp glowed. There was hope.

Ms. Darcy wasn't used to having people—much less nine-year-olds—in her office, throwing ideas at her. "The trouble is, the Center has barely enough funds as it is. Volunteers lead most activities that happen here, and they usually bring their own supplies. I'm afraid that we wouldn't have the money to get the materials needed for the volunteers to teach their classes." Tripp and the girls drooped.

Ms. Darcy knew it was hard news, but she didn't want to give the children false hope. "After last year's city budget cuts, I'm at the mercy of my volunteers to give not only their time but also their own supplies. This discourages many from people volunteering. They come to me with great ideas but don't have the money for supplies."

Tripp sat up straight. "What if we find a way to get volunteers and have them promise to bring their own materials?"

"If you can arrange that, I will take care of the rest," said Ms. Darcy.

Tripp thanked the director and almost pulled the girls out of the office.

"What's the big deal, Tripp?" Vega asked.

"You're not the only one with good ideas," Tripp said triumphantly.



Chapter 3

Skill: Reading Comprehension

Answer the questions below
on the lines provided.



1. Where does the action in Chapter 3 take place?

2. Who is Pauline Darcy?

3. Were Ms. Darcy's answers angry or helpful?

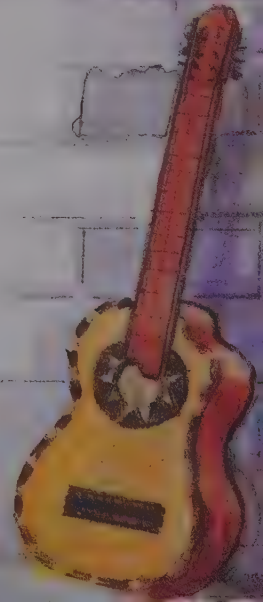
4. Who leads most of the activities at the Community Center?

5. How have budget cuts affected activities at the Community Center?

6. Why don't more people volunteer?

7. What must happen in order for the children's plan to take place?

8. Why is Tripp so excited at the end of the chapter?





Follow My Lead

Starting with the first word, follow the step-by-step instructions.
The last step should give you the final answer to the question.
The first one has been done for you.

Find the major export of...

EGYPT

1. Add "PET" to the end

EGYPTPET

2. Add "ROLL" after first vowel

3. Move first vowel after
second consonant

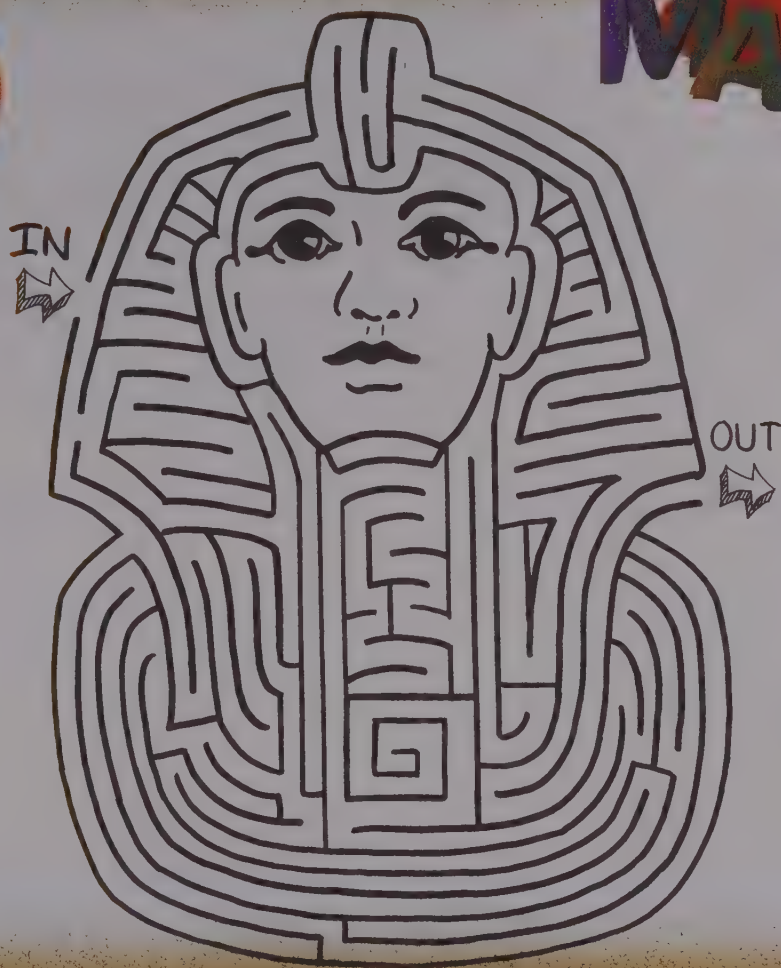
4. Insert "GUM" after third consonant

5. Remove all "Gs"

6. Remove last three letters of the
original word Egypt

7. Remove third consonant

8. Move last three letters to front



Fun with Phonics

Sometimes two consonants together can make one letter sound. The "k" sound can be made by "ch", like in Christmas. Search for 10 words that use the letters "ch" to make the "k" sound.

B	A	G	W	C	H	O	C	S	U	I	O	M	N
H	N	C	I	H	S	T	C	H	O	R	U	S	C
E	A	C	H	N	G	X	S	I	R	Y	D	C	H
A	H	R	T	E	V	C	H	R	E	O	D	W	R
D	C	H	O	R	W	H	U	N	B	O	M	S	I
A	S	R	W	V	C	O	I	Z	A	H	G	E	S
C	T	C	H	E	D	R	M	P	C	T	R	Y	T
H	O	H	S	Q	O	D	R	J	K	H	R	Y	M
E	M	R	K	L	C	H	A	R	A	H	R	L	A
Z	A	I	H	B	H	U	W	M	C	H	L	O	S
O	C	C	H	O	R	F	S	M	H	U	R	F	L
C	H	R	Y	S	A	N	T	H	E	M	U	M	I



Cause and Effect

A cause is the reason for an event.

An effect is what happens as a result of a cause.

Match the proper causes and effects below.

Cause

1. I was starving,
2. My baby sister was sick,
3. There was lightning,
4. I have a big test tomorrow,

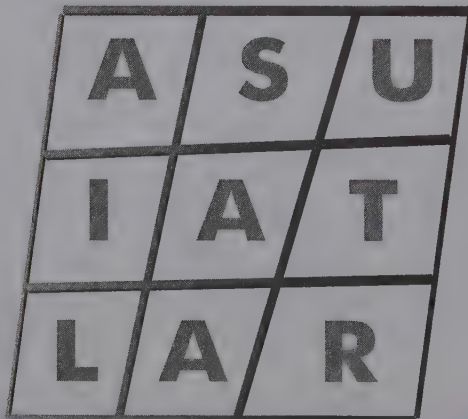
Effect

- a. so I am going to study all night.
- b. so they cancelled our soccer game.
- c. so she cried all night long.
- d. so I ate two hamburgers.

squarely speaking

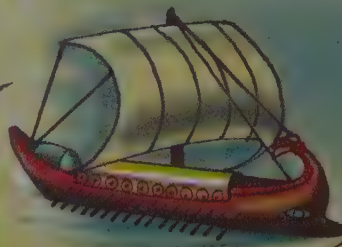
Using each letter only once, find the country by connecting square to touching square. (You may use diagonals.)

Start with the letter A.



Recycling

Advise your parents to hold garage sales or donate any old clothes or materials you have to charity.



Science Project

Adult supervision may be required.

Eggstraordinary Science! - Part I

What would you say if someone told you they could bounce an egg? You'd probably think of poor old Humpty Dumpty, right? Well, with a little chemistry on your side, you really can bounce an egg.

What you need:

- a raw egg, with shell
- a cup
- vinegar

What to do:

- 1) Place the egg inside the cup.
- 2) Pour vinegar over the egg until it is completely covered.
- 3) Observe for a few minutes. What do you notice?
- 4) Wait 24 hours.
- 5) Check the egg the next day.
- 6) Make as many observations as you can: touch, smell, and look at the egg. How is it different than when you first put it in? You might want to get out another raw egg so you can make a good comparison.
- 7) Take out the egg. What is left inside the cup? Try bouncing the egg. Pretty neat!

What's happening:

- When you first put the vinegar in with the egg you probably noticed some bubbles coming off the eggshell.
- These bubbles were caused by a chemical reaction between the eggshell and the vinegar. The vinegar dissolved the eggshell.
- The white material left in the cup is dissolved eggshell. It has been through a chemical change. There is no way to get back the original eggshell.
- The vinegar chemically reacted with the rest of the egg, causing it to become solid and rubbery enough to bounce.

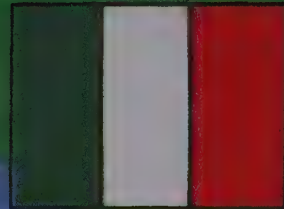
Remember to use the Scientific Method!

- 1) *Make your hypothesis.*
- 2) *Record your observations.*
- 3) *Draw your conclusions.*

CASTELLO
DI AYMAVILLES

SWITZERLAND

AUSTRIA



FRANCE



MILAN



VENICE

GULF
OF
VENICE

SAN
REMO



LIGURIAN
SEA



PISA

FLORENCE



ADRIATIC
SEA

PESCARA

ROME

VATICAN
CITY



MANFREDONIA

BRANDANO R.

NAPLES

CAPRI

GULF
OF
SALERNO

GULF
OF
TARANTO

CALABRIA



SICILY

IONIAN
SEA

TEMPLE OF CONCORD

MEDITERRANEAN
SEA

ENGLISH

ITALIAN

- HELLO BUON GIORNO
- GOODBYE ARRIVEDERCI
- PLEASE PER FAVORE
- THANK YOU GRAZIE

- CURRENCY EURO
- POPULATION OVER 57,000,000

Italy!

Crossword



ITALY

Across

1. This city is famous for gondolas
2. Sea to the east
3. Gulf south of Naples
4. Island south of Naples
5. Sea to the south of Calabria

Down

1. City (located near Rome)
2. Country that borders to the northeast
3. Southern island at the toe of the "boot"
6. Sea west of Pisa



Facts about Italy

Italy is located in South Central Europe. It occupies a peninsula that juts deep into the Mediterranean Sea. Italy is famous for its many beautiful cities such as Rome (the capital), Vatican City, Florence, Pisa, Milan and Venice with its gondolas.

Matching Equations

Match the multiplication and division problems that share the same answer.

1. $96 \div 12$

2. 6×6

3. 3×2

4. $100 \div 10$

5. 8×5

6. $60 \div 2$

7. $90 \div 10$

8. 8×3

a. $36 \div 6$

b. $80 \div 2$

c. $48 \div 2$

d. 3×3

e. $72 \div 2$

f. 4×2

g. 5×2

h. 6×5

Arts & Crafts



Adult supervision may be required.

Personal Book Plates

Materials:

- package of large labels
- markers
- stickers

Directions:

1. On each label, write "From the library of" and your name.
2. Decorate the border of the label with markers or stickers.
3. Put one label on the inside cover of each of your favorite books.
4. Now when someone borrows your book they will know to whom to return it.





Volcanoes:

Gases in a Volcano

Adult supervision is recommended.

Materials

- 2-liter plastic soda bottle
- scissors
- $\frac{1}{4}$ c. (59.1 ml) water
- $1 \frac{1}{2}$ tsp. (4.9 ml) baking soda
- 5 raisins or other dried fruit
- $\frac{1}{4}$ c. (59.1 ml) vinegar

Sometimes volcanic eruptions throw violent bursts of lava and ash into the air. At other times eruptions slowly ooze lava from cracks called *fissures*. The type of eruption depends on the gas escaping from the magma.

As magma moves toward the surface, the gases begin to separate and form bubbles. During the eruption, the gases pour out with the magma. Once magma breaks through the surface and becomes lava, the gases bubble out. Sometimes lava can trap gases, and in time, the pressure will cause the lava to explode with a loud bang. Because the gas content changes during a volcanic eruption, the eruption can become violent at a moment's notice.

Directions

1. Rinse out the soda bottle, and use scissors to cut off the top 1 in. (2.5 cm) of it.
2. Fill the bottle with $\frac{1}{4}$ c. (59.1 ml) of water.
3. Add $1 \frac{1}{2}$ tsp. (4.9 ml) of baking soda to the water. Swirl the liquid.
4. Add the raisins to the mixture.
5. Swirl the mixture together. As you continue swirling, add $\frac{1}{4}$ c. (59.1 ml) of vinegar. What happens to the mixture?

6. Set down the bottle. When the liquid stops moving, observe the raisins. Describe what you see.



7. How does this experiment mimic a volcanic eruption?

Extension

Find out about the following tall volcanoes.
Fill out the chart with each volcano's height.

Volcano	Height
El Misti, Peru	
Erebus, Ross Island, Antarctica	
Llullaillaco, Chile/Argentina	
Mount Cameroon, Cameroon	
Kliuchevskoi, Russia	
Pico de Orizaba, Mexico	
Etna, Sicily, Italy	
Cotopaxi, Ecuador	

Journal

Use a blank sheet of paper if you need more space.

Sooner or later everyone has to go to the dentist. Explain whether you enjoy, or don't enjoy, a visit to your dentist's office.



weird science

The biggest spider in the world lives in South America and eats birds! They can have a leg span of more than 10 inches (25 cm) and weigh as much as 4 ounces (120 g).

Comparing Numbers

Write the proper math symbol $<$ (less than) or $>$ (greater than) to compare the sets of numbers below.

1. 2,011,983 $\underline{\hspace{1cm}}$ 2,102,871

2. 4,912,555 $\underline{\hspace{1cm}}$ 4,976,555

3. 8,424,062 $\underline{\hspace{1cm}}$ 8,423,062

4. 1,576,221 $\underline{\hspace{1cm}}$ 1,621,999

5. 9,872,444 $\underline{\hspace{1cm}}$ 8,872,444

6. 6,272,813 $\underline{\hspace{1cm}}$ 6,222,813

¿Riddle Me This?

Journal

I am easily recognized because I'm shaped like a boot. People all over the world love the delicious pasta dishes I am known for.

What country am I?

I'm thankful today because...

Math Games

Do you see a pattern? Fill in the blanks with the correct number to complete the pattern.

1.

20

15

11

8

2.

36

30

25

21

3.

40

31

23

16



Wanted: Volunteers

Chapter 4



Tripp added "SUPPLIES" to the bottom of his list of things to do. "First, we need to organize our list of people to recruit as volunteers."

Celeste knew this was going to be a challenge. "But whom do we recruit?"

"While you were making posters, I started a list of interesting people we know," answered Tripp.

Celeste and Vega added several more names to Tripp's list.



"Come with me," said Celeste suddenly. Tripp and Vega hurried to keep up with her. Soon, they were at the 8th Street Market.

The rhythm of a guitar, trumpet and violin belting out a salsa number stopped them in their tracks. They hardly noticed Mr. Gomez arranging a display of fresh vegetables.

"What can I do for you children today?"

Vega snapped her fingers.

"Hey, this music is great." Celeste grinned and introduced her friends to the grocer, who was also her favorite uncle, Nick Gomez.

"How's your band, Uncle Nick?"

"Great!" said Mr. Gomez.

"We play the next six weekends. Everybody needs music!"

"Oh," said Celeste sadly.

Mr. Gomez stopped with a handful of oranges. "What's the matter? This is good news..."

"Well," Celeste hesitated, "I was hoping that you could play at the Community Center—for free."

Mr. Gomez studied his oranges. Then he asked, "Can we do it on a weeknight?"

"You bet!" shouted Celeste as she hugged her uncle.

Tripp was puzzled. "What kind of band do you have, Mr. Gomez?"

Celeste pointed to a speaker in the ceiling. "That recording is of his mariachi band."

"Cool!" said Vega and Tripp together.

As the three left the market, Tripp was already thinking ahead. "Now all we need is food."



Chapter 4

Skill: Sequence of Events

Number these events in the order in which they occurred in Chapter 4. Label the items 1 (first) through 8 (last).



- _____ The children list people they want to recruit.
- _____ Mr. Gomez agrees to play at the Community Center.
- _____ Mr. Gomez talks about his band.
- _____ Tripp reveals his plan for volunteering.
- _____ Tripp starts thinking ahead.
- _____ Vega notices the music.
- _____ Celeste leads her friends to the 8th Street Market.
- _____ Mr. Gomez is introduced as a character in the story.



CRAZY CAPERS

Who Drank the Last Can of Lemonade?

Jason's family is big. He has three sisters and two brothers, all of whom live together in one house with his parents and his grandfather, for a total of nine people. Can you help Jason figure out who drank the last can of lemonade? All of his sisters are allergic to lemons and his parents don't like lemonade, so the remaining suspects are his brothers, Christopher and Tony, and his grandfather. Listed at the bottom are important facts about Jason's suspects. Directly below are the clues Jason has to work with:

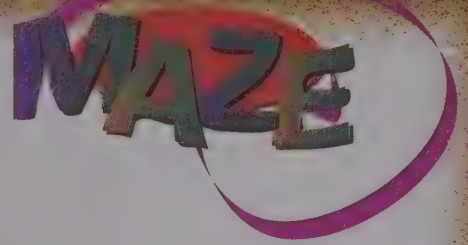
CLUES!!!

- When Jason ate a snack at 10:00 p.m. the night before, the can of lemonade was still in the refrigerator. The next morning it was gone.
- Christopher is younger than Jason and his bedtime is 9 p.m.
- At the dinner table the night the can was nabbed, Grandfather mentioned how salty and dry the food was.
- Tony left the house at 8:30 p.m. to go to the library. Jason was asleep when he came back.
- Jason found sticky spots on the first floor patio the next morning.
- The patio's television was turned to the wacky science fiction channel, but the volume was turned down.

IMPORTANT FACTS!!!

- Grandfather lives in the attic and complains about his arthritis, which acts up at night and makes it impossible for him to move around.
- Tony is always studying and often drinks a lot of soda and juice to help stay awake. He also stays up very late at night.
- The can of lemonade was thrown in the garbage and had powdered sugar fingerprints on the side of it.
- Grandfather thinks science fiction is silly.
- Lemonade makes Christopher break out in hives. He also has posters of dinosaurs and the space rangers on his wall.
- Powdered sugar causes Tony's ankles to swell up so bad he can't put shoes on. He was barefoot the day after the can was swiped.

Who is It?!



Plural Endings

Plural means more than one. Sometimes words can be made plural by adding an "s," "es," or "ies." Sometimes the spelling of the word changes.

Write each word below with the correct plural spelling.

1. box _____

5. tooth _____

2. mouse _____

6. beach _____

3. flower _____

7. country _____

4. leaf _____

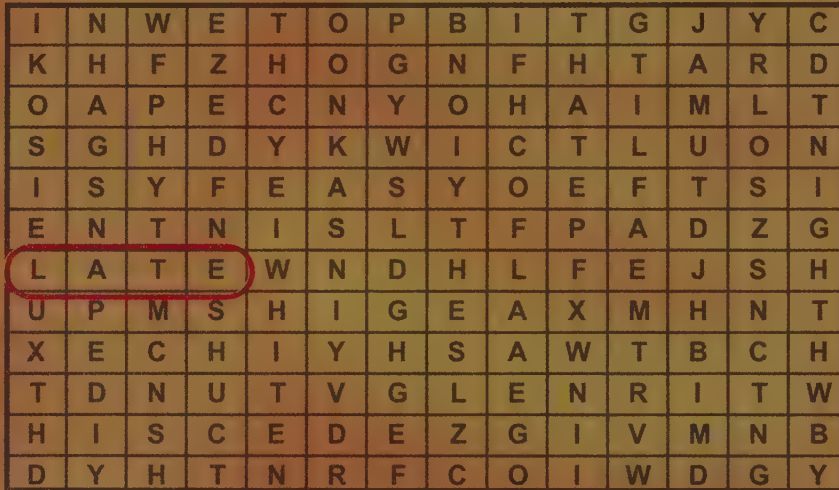
8. dish _____



Antonyms Word Search

Antonyms are words that mean the opposite. Find the antonym for each word listed in the word search below. The first one is done for you.

The hidden words might be horizontal, vertical or diagonal.



Example:

early **late**

morning

dangerous

huge

black

unhelpful

difficult

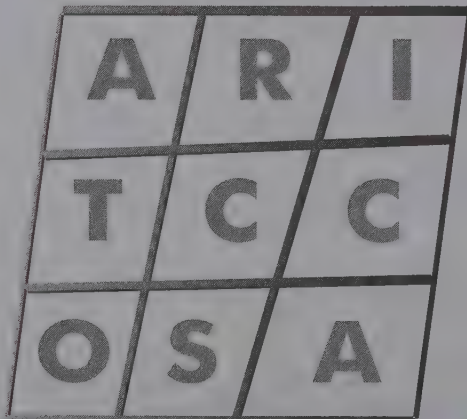
nervous

love

squarely speaking

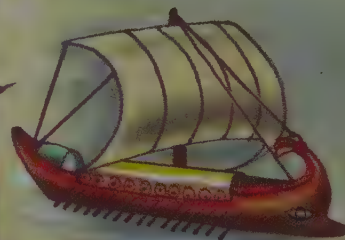
Using each letter only once, find the country by connecting square to touching square. (You may use diagonals.)

Start with the letter C.



Recycling

Plant a tree. Trees remove carbon dioxide from the atmosphere and produce oxygen that we need to survive.



Eggstraordinary Science! - Part II

Have you ever seen a ship in a bottle? Well, you are going to try to get an egg into a bottle without even touching it! This is an amazing trick that will impress just about anybody! **You must have an adult to help you with the experiment.**

What you need:

- a small hard-boiled egg
- matches
- a 3-inch (8 cm) by 3-inch (8 cm) piece of paper
- vegetable oil
- an empty, clean, wide-mouthed GLASS container (apple juice jug works well)

What to do:

- 1) Peel and rinse the hard-boiled egg. Have it ready to go.
- 2) Take a teaspoon of vegetable oil and rub it around the mouth of the container.
- 3) An adult must light a match. Set fire to the paper, and drop it quickly down into the jar while placing the egg on top.
- 4) Stand back and observe!
- 5) It may take a few tries to get it right!

What's happening:

- The burning paper warms up the air molecules inside the jar. They expand and squeeze their way OUT of the jar, past the egg. You may have noticed the egg "hopping" on top of the jar. This was the molecules pushing their way out.
- Most of the air molecules leave the inside of the bottle, making a low pressure zone.
- The air OUTSIDE the bottle is a high pressure zone.
- High pressure zones like to push their way into low pressure zones. So the air molecules on the outside of the bottle started pushing on the egg to get into the bottle! They push so hard, the egg has no choice but to go along with them!

Remember to use the Scientific Method!

- 1) Make your hypothesis.
- 2) Record your observations.
- 3) Draw your conclusions.

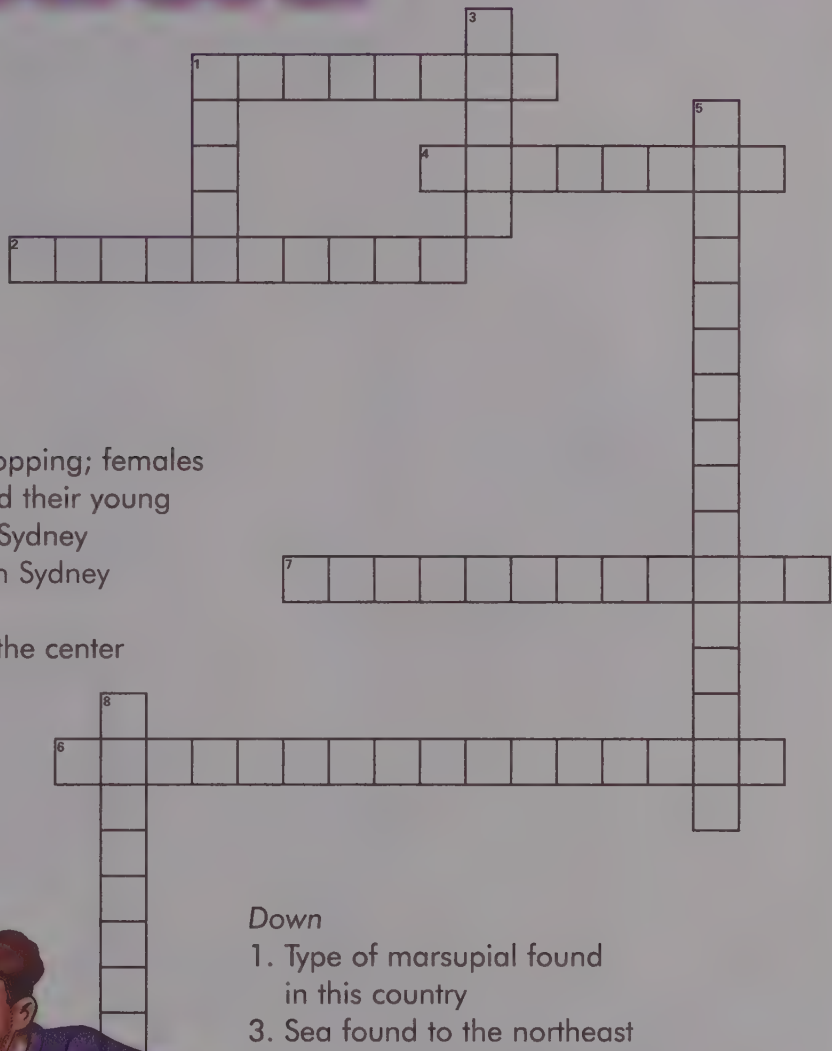


Australia!



- LANGUAGE ENGLISH
- CURRENCY AUSTRALIAN DOLLAR
- POPULATION APPROX 20,000,000

Crossword



AUSTRALIA

Across

1. Animal known for hopping; females have pouches to hold their young
2. Famous structure in Sydney
4. City that lies between Sydney and Melbourne
6. Mountains found in the center
7. Cactus found here

Down

1. Type of marsupial found in this country
3. Sea found to the northeast
5. A reef off the northeast coast
8. Island to the south



Facts about Australia

Australia is the smallest continent and one of the largest countries in the world. It lies between the Pacific and Indian oceans. Canberra is the capital of Australia located between Sydney and Melbourne. Kangaroos and koalas are marsupials found in Australia. People travel from all over the world to scuba dive near the Great Barrier Reef that lies between the Coral Sea and the northwest part of Australia.

Fraction Equations

Add or subtract the fractions as indicated.

① $\frac{1}{2} + \frac{1}{2} =$

② $\frac{7}{8} - \frac{5}{8} =$

③ $\frac{9}{10} + \frac{3}{10} =$

④ $\frac{6}{7} + \frac{5}{7} =$

⑤ $\frac{1}{6} + \frac{3}{6} =$

⑥ $\frac{3}{4} - \frac{2}{4} =$

⑦ $\frac{8}{9} + \frac{4}{9} =$

⑧ $\frac{5}{6} + \frac{1}{6} =$

Arts & Crafts

T

Adult supervision may be required.

Butterfly Napkin Rings

Materials:

- construction paper
- garbage bag twist ties
- scissors
- glue
- markers



Directions:

1. Cut out four strips of construction paper—1" x 6" (3 cm x 15 cm) each.
2. Now cut out a background shape and a butterfly, as shown, from construction paper.
3. Glue them together. Decorate the butterfly.
4. Snip 2 pieces of twist tie and glue them to the top of the butterfly for antennae.
5. Make four of these butterfly pieces.
6. Glue each butterfly piece to each paper strip to create napkin rings.
7. When the napkin rings are dry, wrap them around paper napkins. Overlap the ends and glue them, being careful not to get the glue on the napkins.
8. Now have a picnic or party.





Volcanoes:

Cinder Cone Volcano, Step 1

Adult supervision is recommended.

Materials

old newspapers
4 c. (946.4 ml) water
 (2 c. [473.2 ml] cold;
 2 c. [473.2 ml] boiling)
 $\frac{1}{2}$ c. (118.3 ml) flour
3 T. (44.4 ml) sugar
saucepan
masking tape
large sheet of
 cardboard or
 plywood, or a
 foil tray, at least
 24 in. $\times$ 16 in.
 (60.9 cm $\times$ 40.6 cm)

Cinder cone volcanoes are the smallest and simplest type of volcano. They form as ash, cinders and bombs build up around a single vent in the ground. *Bombs* are rock-size pieces of lava that burst into the air and harden as they fall back toward the ground; *cinders* are pebble-size pieces of the same material.

Sometimes several cinder cone volcanoes erupt in the same area, forming a volcanic field. Craters of the Moon in Idaho is a volcanic field.

Directions

1. Tear about 15 sheets of newspaper into 2-in. (5.1-cm) strips. Soak the strips in warm water. Prepare the paste.
2. Mix the flour with 2 c. (473.2 ml) of cold water in a bowl.
3. With an adult's help, boil 2 c. (473.2 ml) of water in a saucepan.
4. Add the flour mixture to the boiling water. Return to a boil.
5. Remove from heat and add the sugar.
6. Let this mixture cool for at least a half hour; it will thicken as it cools.
7. Ball up about a dozen pieces of newspaper (*not* the newspaper strips; they are still soaking). Pile them to form a mounded shape resembling a hill on the cardboard or plywood. An uneven, "bumpy" form will make a more realistic volcano. Hold the cone together loosely with a few pieces of masking tape. Keep a small opening at the top for the volcano's vent. Make sure the opening is large enough to fit a small plastic or paper cup or an empty film cylinder.

8. Remove the newspaper strips from the water one at a time. Drain excess water from each strip.

9. Dip one strip into the paste. Overlap it vertically on the volcano from the top to the bottom. Run the top edge of the strip over the rim of the vent and tuck it into the opening.

10. Repeat steps 8 and 9, overlapping the remaining strips vertically around the form.

11. Set the volcano form in a place where it can dry thoroughly for one to two days. Cover the paste and keep it in the refrigerator until you are ready for the next layer.

12. After the first layer has dried, prepare to add a second layer of newspaper strips to your model. Tear and soak another 15 newspaper strips.

13. Repeat steps 8 and 9 until you have added an entirely new layer of newspaper strips.

14. Set your volcano in a safe place, and allow the second layer to dry thoroughly for another one to two days.



Extension

Geysers are fountains of hot water that occasionally erupt from cracks in the Earth. Often, geysers are found where volcanoes have been active. Old Faithful, a geyser in Yellowstone National Park, erupts in a 197-ft. (60-m) fountain of water once every hour. Learn more about Old Faithful at your local library. As you research, take notes on the lines below.

Journal

Use a blank sheet of paper if you need more space.

It's your birthday and your parents tell you that you can have whatever you want for dinner. What do you pick and why?



weird science

Some fish have luminescent (glow-in-the-dark) organs, like the Deep Sea Hatchet Fish!

Rounding

Round the following numbers to the nearest ten. If the number has five ones or more, round it up to the next highest ten. If it has four ones or less, round it down to the nearest ten.

Examples: 33 → 30 55 → 60

1. 78 → _____

5. 62 → _____

2. 14 → _____

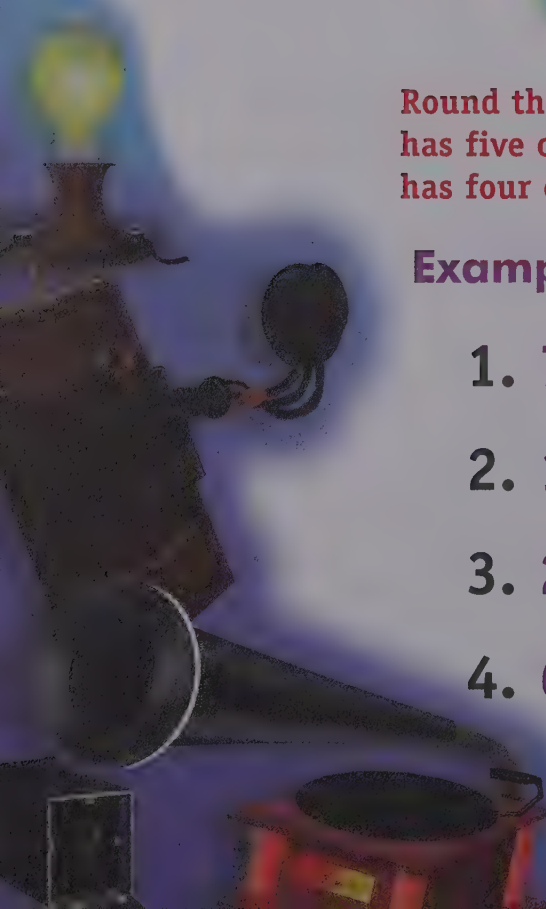
6. 47 → _____

3. 22 → _____

7. 91 → _____

4. 66 → _____

8. 54 → _____



Riddle Me This?

Swift-footed kangaroos hop through my wilderness. I am unique in that I am both a country as well as a continent. My nickname is "Down Under."

What country am I?

Journal

I'm thankful today because...

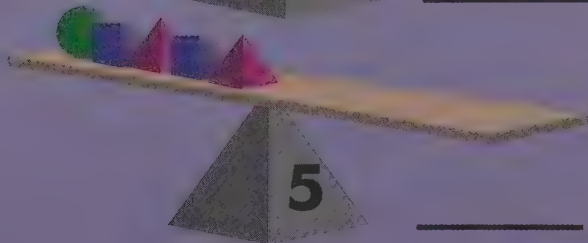
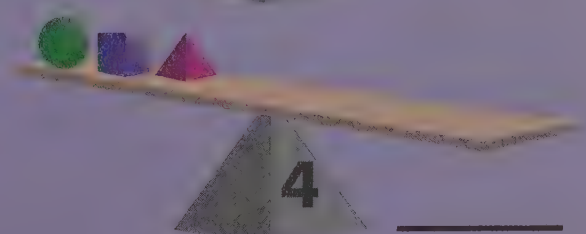
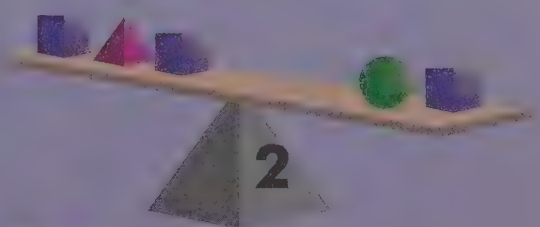
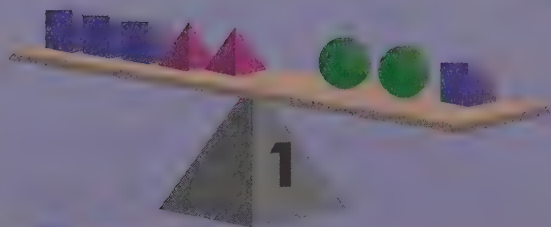
Math Games

Each shape has a value. Scales 1 and 2 are in perfect balance.
How many circles are needed to balance scales 3, 4 and 5?

 = 3

 = 7

 = 10



Wanted: Volunteers

Chapter 5



Celeste, Vega and Tripp got a late start the next day. As they entered the Athena Café for lunch, the delicious smells of grilled meat and vegetables made Tripp's mouth water. The café was a favorite spot, and almost everyone in the neighborhood knew the owner, Dmitri.



One of the children's favorite reasons for coming to the café was watching Dmitri prepare their food, especially *saganaki*. The flash of the Greek appetizer shooting fire as Dmitri lit the cheese always made them jump.

With their lunches on their plates, no one felt like talking. They just ate. The *gyros*, sandwiches made with pita bread, lamb, and grilled vegetables, disappeared quickly.

As they finished, Dmitri came over and slipped each of them a piece of *baklava*, a pastry with flaky, honey-sweet layers.

"Where did you learn to cook, Dmitri?" asked Celeste as she licked her fingers.

"What I know, I learned from my mother and from her mother," said Dmitri.

"Would you like to teach other people to cook?" asked Celeste.

Dmitri raised his eyebrows. "What are you kids up to?"

Vega laid out the plan. Dmitri could lead a cooking class at the Community Center.

"Well, kids," Dmitri began, "I have the café to run." He stared at the counter. Then he continued, "Something else my mother taught me was to go right to the source. Mother should be teaching your class. She's the expert."

"Would she do it?" asked Tripp.

"I think so," said Dmitri. "I'll ask her and let you know tomorrow."

Bursting with excitement, Tripp, Vega and Celeste thanked Dmitri and left the café. Vega reminded her friends about Thursday morning. "Come to my house at 9:30. See you then!"



Chapter 5

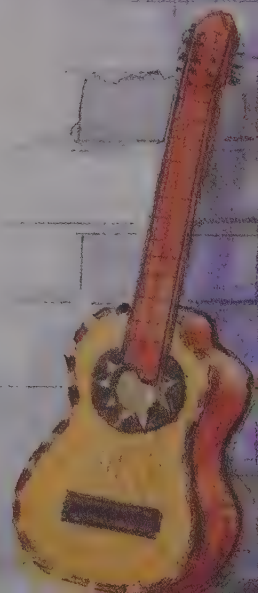
Skill: Determine Cause and Effect

Draw a line to connect each
cause with its effect.

The first one has been done for you.



Cause	Effect
Dmitri's mother and grandmother taught him to cook.	The children's food "disappeared."
The smells from the café kitchen were good.	Dmitri volunteers his mother to lead a cooking class.
Baklava has lots of honey in it.	Dmitri is a good cook.
Dmitri says that his mother is an expert cook.	Dmitri cannot volunteer at the Center.
The children ate their lunches.	Tripp's mouth watered.
Dmitri has to run his café.	Celeste has to lick her fingers.



Fix the Facts

Mr. and Mrs. McCarthy are planning a trip to Hawaii. Their two children, Blythe and Jack, will be going with them. They planned their trip over a couple of days. Can you put their conversations in order?

A.

"The islands are so beautiful. I can't wait to really see them. Can we see a volcano? Can we swim in the ocean, Mom?"

B.

"I called the travel agent just like I said I would last night. He set up a great deal for us: sightseeing, a nice hotel on the ocean, meals and Hawaiian luaus will be a part of the package."

C.

"Let's decide what islands we want to see first children, then we can decide what we want to do when we get there. We need to decide on an airline and hotel also. I wonder if any travel packages would appeal to us?"

D.

"I will call the travel agency in the morning and see if they have any packages available. I will ask if they have specific packages for families that include seeing a volcano."

E.

"Good morning, Mr. Turner. I'm interested in a trip to Hawaii. Do you have any packages available that would be nice for a family of four?"

F.

"We will be leaving at 8:00 a.m., May 30th. We'll have to get up early, so we should be completely packed the night before. It takes an hour to get to the airport, so we should be out the door by 6:00 a.m. Then it's HELLO HAWAII!"

1. _____

4. _____

2. _____

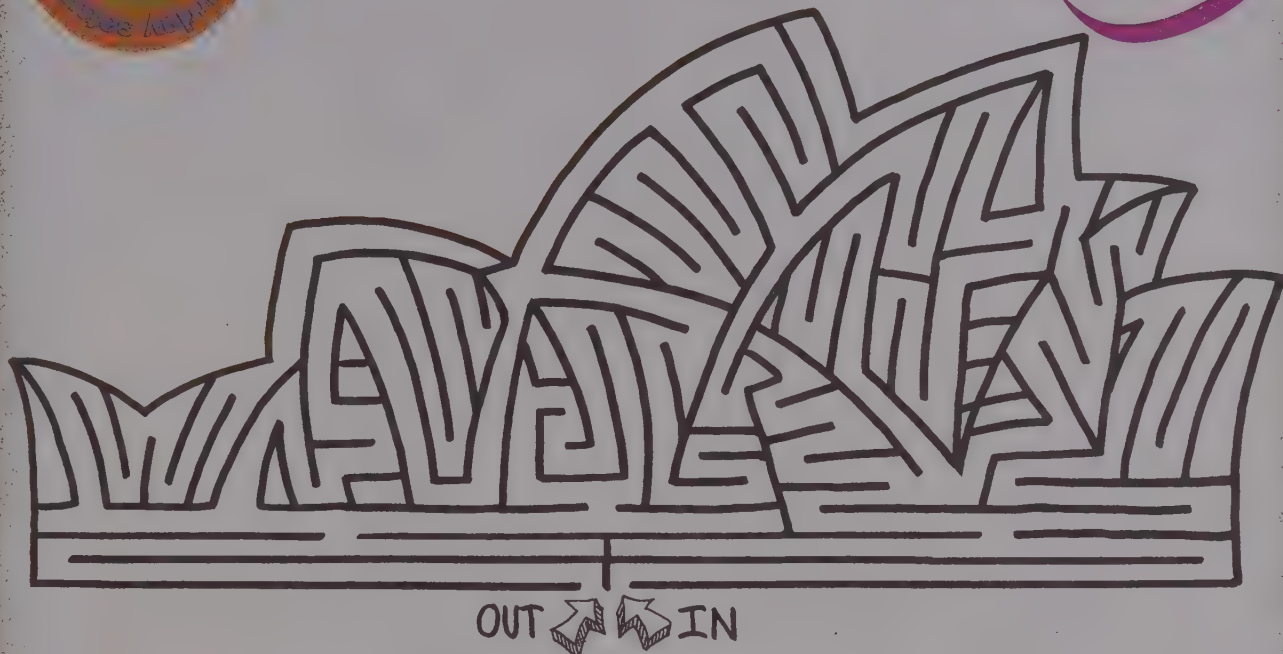
5. _____

3. _____

6. _____



MAZE



Possessive Nouns

Possessive nouns tell who or what is the owner of something.
Singular possessive nouns take an apostrophe before the "s."

Example: The lion has cubs. lion's cubs

Plural possessive nouns take an apostrophe after the "s."

Example: The lions have cubs. lions' cubs

Rewrite each noun as singular or plural possessive.

1. sailors ships

2. waiter tip

3. teacher chalkboard

4. kids toys

5. lifeguards stations

6. actors costumes



Past Tense Verbs

Change each verb below to be past tense
(tell about something that already happened).

1. stop

2. blow

3. tell

4. sing

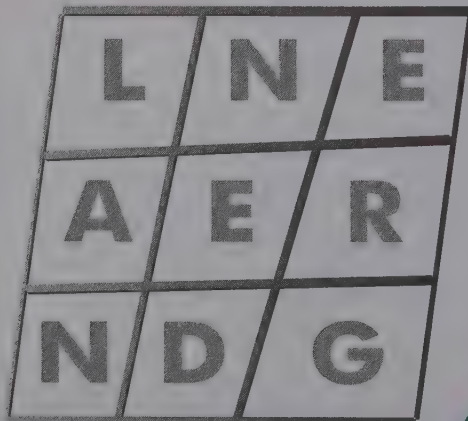
5. cook

6. watch

squarely speaking

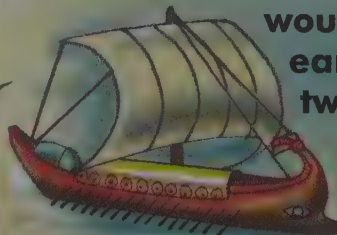
Using each letter only once, find the country by connecting square to touching square. (You may use diagonals.)

Start with the letter G.



*Recycling

The most recycled product used by consumers in the world today is the automobile. Nearly every car taken off the road is recycled. If all the cars recycled in one year were lined up, the line would circle the earth almost two times!



A Most Mysterious Matter

Just about everything you can think of can be called matter. Matter is a word for anything that takes up space and has mass. Most people will agree that matter comes in three basic forms: solid, liquid, or gas. In this experiment, you will make a mysterious substance. Is it solid or liquid? You will have to decide!

What to do:

- 1) Measure out about $\frac{3}{4}$ cup of cornstarch. Pour into container.
- 2) Slowly add $\frac{1}{2}$ cup of water. Stir.
- 3) Mix the two ingredients well.
- 4) Now you are ready to experiment. Is this mysterious substance a solid or a liquid?

What you need:

- an area that can get really messy
- cornstarch
- water
- a small container
- spoon

Try these to help you decide:

- Stir it slow. Now stir it really fast. What's the difference?
- Pour a little into your hand. Try rolling it quickly into a ball. What happens when you stop?
- Try poking it with your finger. First, do it very slowly. Then give it a good, hard poke. What do you notice?
- Pour it from one cup to another. Watch how it moves when you move the cups farther apart as you pour it.
- Pour some onto the table. Try hitting it with the end of the spoon. Observe it carefully.
- Have you decided yet? Design more experiments to figure out this mysterious substance!

Remember to use the Scientific Method!

- 1) *Make your hypothesis.*
- 2) *Record your observations.*
- 3) *Draw your conclusions.*



China!



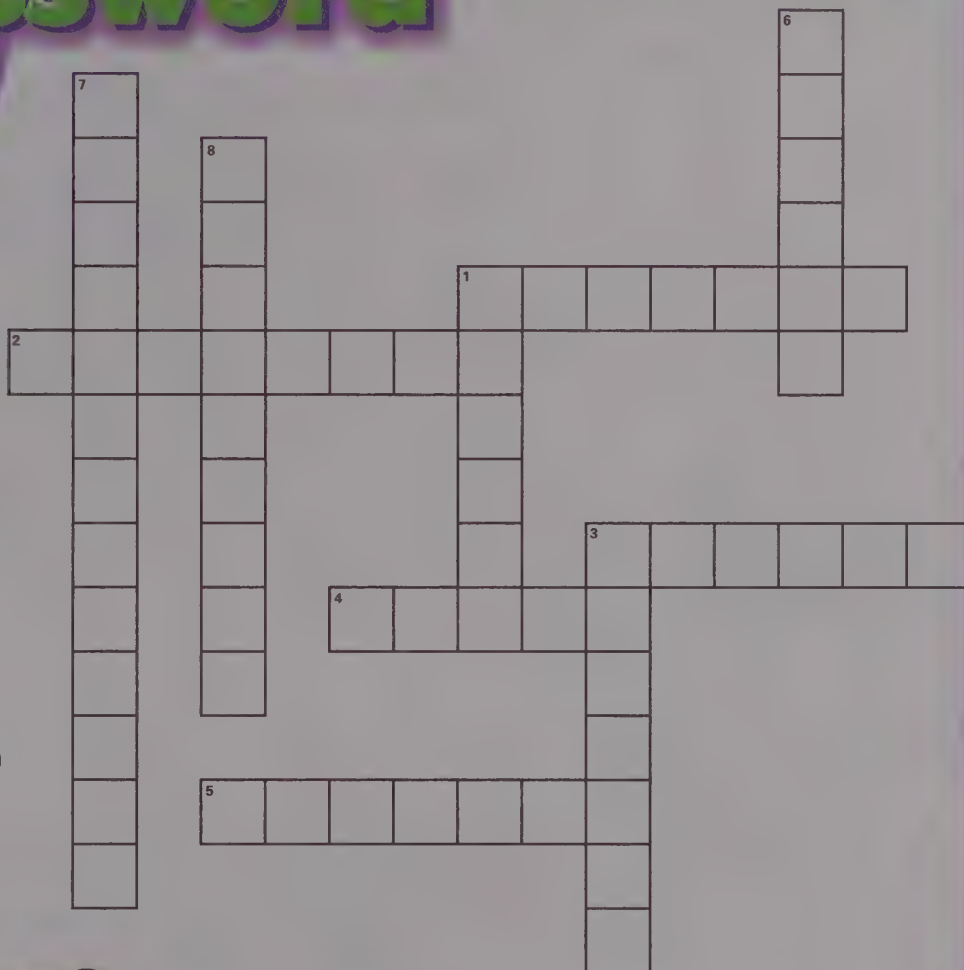
ENGLISH	CHINESE (PINYIN)
HELLO	NĪ Hǎo
GOODBYE	Zài jiàn
PLEASE	Qǐng
THANK YOU	Xiè xiè
CURRENCY	YUAN
POPULATION	APPROX 1,290,000,000

Crossword

CHINA

Across

1. This monastery is located in the southwest corner
2. These mountains are located in the Southwest
3. This sea lies between China and the Koreas
4. Popular animal
5. Tallest mountain in the world on the southwest border



Down

1. This island lies off the southeast coast
3. This river runs across half of China
6. This island is south of Hong Kong
7. This landmark is found in the capital
8. This landmark was built to protect China



Facts about China

China is the largest of all Asian countries and has the largest population of any country in the world. Beijing is the capital and the home of Forbidden City. Other famous landmarks include the Tibetan Monastery, the Great Wall and Mt. Everest, the tallest mountain in the world. Panda bears are native to China.

Multiplication and Division

Complete the equations below.

①

$$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$$

②

$$11 \overline{) 99}$$

③

$$\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$$

④

$$6 \overline{) 36}$$

⑤

$$\begin{array}{r} 10 \\ \times 10 \\ \hline \end{array}$$

⑦

$$9 \overline{) 81}$$

⑧

$$\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$$

⑥

$$8 \overline{) 64}$$

Arts & Crafts



Adult supervision may be required.

Key Holder

Materials:

- wooden cutting board
- cup hooks (4)
- ribbon
- acrylic paints
- paintbrush
- nail
- hammer



Directions:

1. Use a nail and hammer to make four small holes at the top of the cutting board. Make the holes a small distance apart.
2. Now screw a cup hook into each of the holes.
3. Paint a design on the cutting board.
4. Tie a ribbon around the handle. (Put a little glue on the back of the handle to keep the ribbon in place.)
5. Give the key holder as a gift.





Volcanoes:

Cinder Cone Volcano, Step 2

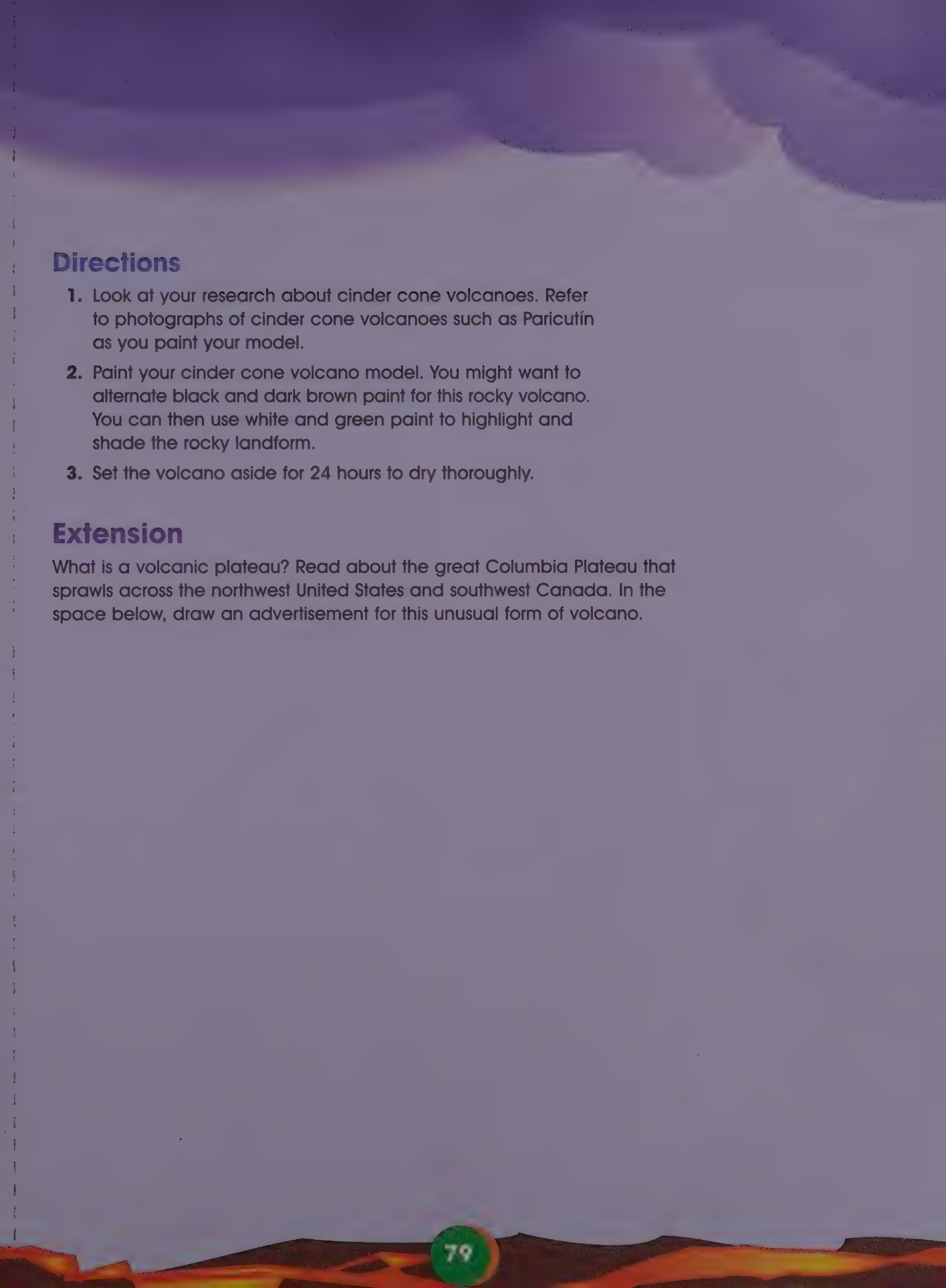
Adult supervision is recommended.

Cinder cone volcanoes grow quickly and soon reach their maximum height. The famous Parícutín volcano in Mexico was “born” in 1943. A farmer was working in his cornfield when smoke began to puff up from the ground. He watched as the beginnings of a cinder cone volcano developed before him. In the first year, the volcano grew 1,100 ft. (335.3 m). It continued to grow for another eight years, but only by 290 ft. (88.4 m).

Materials

non-water-based craft paints in
white, brown, black and green
medium-size paintbrushes or
disposable foam applicators
(one brush for each color,
if possible)
paper towels or rags
for cleanup





Directions

1. Look at your research about cinder cone volcanoes. Refer to photographs of cinder cone volcanoes such as Parícutín as you paint your model.
2. Paint your cinder cone volcano model. You might want to alternate black and dark brown paint for this rocky volcano. You can then use white and green paint to highlight and shade the rocky landform.
3. Set the volcano aside for 24 hours to dry thoroughly.

Extension

What is a volcanic plateau? Read about the great Columbia Plateau that sprawls across the northwest United States and southwest Canada. In the space below, draw an advertisement for this unusual form of volcano.

Journal

Use a blank sheet of paper if you need more space.

Your parents say they'll let you have a later bedtime if you tell them a good enough reason. What would you say in order to go to bed at a later time?



weird science

**Flies have eyes that
are made up of hundreds
of smaller eyes. Eckhhh!**

Story Problem

Your family is planning a trip to China. Round trip airline tickets will cost \$900.00 each and there are four of you going on the trip. You will also need to bring \$2,000.00 for spending money. How much money will this trip cost?

Riddle Me This?

Journal

I contain a wall so big it can be seen from outer space. My name is also the name of fancy dishes.

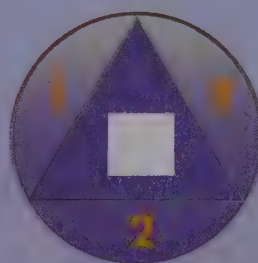
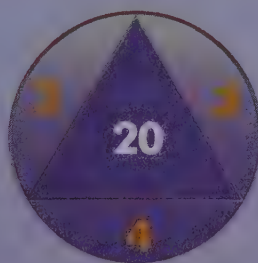
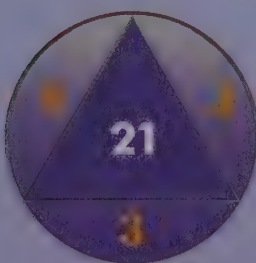
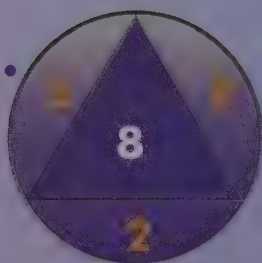
What country am I?

I'm thankful today because...

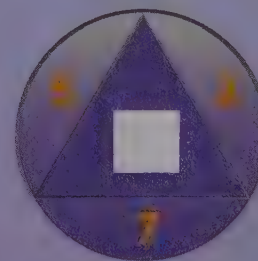
Math Games

Do you see a pattern? Fill in the blanks with the correct number to complete the pattern.

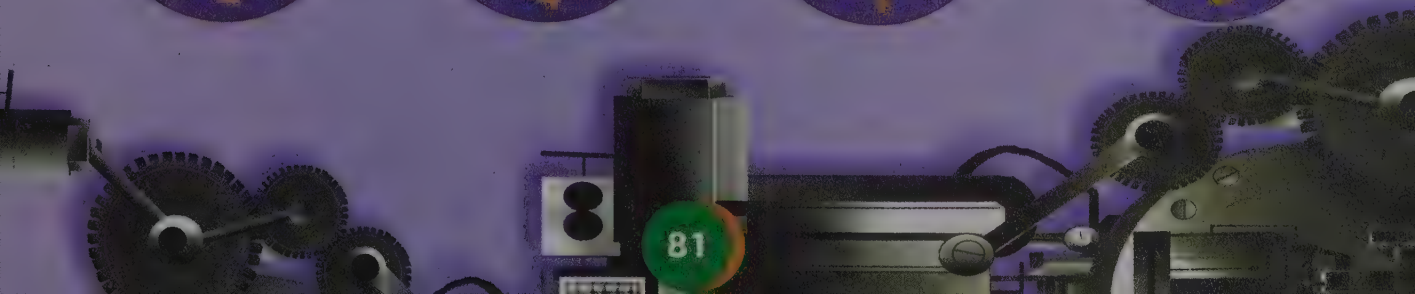
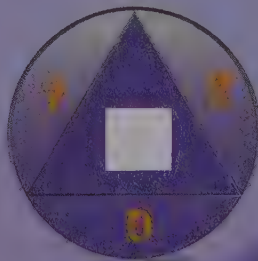
1.



2.



3.



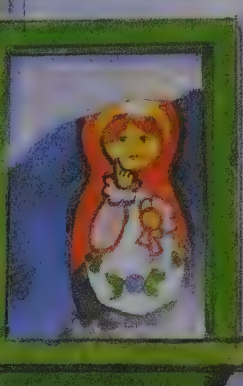
Wanted: Volunteers

Chapter 6



The three friends met at Vega's house the next morning. Vega hoped to recruit her neighbor, Mrs. Radanovich, as a volunteer.

Vega loved visiting Mrs. Radanovich and seeing the treasures in her house. Family photos lined a hallway, handwoven linen lined shelves, and a painted Fabergé egg held a secret treasure inside.



Mrs. Radanovich told stories about her childhood in Russia. "I was eleven. I came here with my parents. My older sister stayed behind with her new husband. It was a terrible and exciting time."

Tripp noticed the sadness in her eyes and in her voice.

"I haven't seen my sister since. Money has been tight, and she has not been able to visit."

Vega couldn't wait. "Mrs. Radanovich, would you please show my friends your collection?"

Mrs. Radanovich led them into a room where every shelf was lined with wooden dolls. There were several versions of each doll, each one smaller than the

next. "The smallest one is no bigger than a thimble," she said. "I gave that to my sister to remember me by."

"They're beautiful," said Celeste.

"They're *matryushka* dolls," explained Mrs. Radanovich. "They're made from a single block of wood. Each doll opens to hold the next smaller size."

"Mrs. Radanovich, would you share your dolls with people at the Community Center?" Vega asked.

"Oh, I'm a little old to be showing off my doll collection," said Mrs. Radanovich.

"People would love to learn how they're made," Vega added.

Mrs. Radanovich gave in. Vega was sure that even the *matryushka* dolls smiled.

Outside, the three children parted ways. Celeste went to work on the mural she was painting for the Center. Vega stayed to help Mrs. Radanovich. Tripp, acting secretive, said he had an errand to run.



Chapter 6

Skill: Verbs

Connect the verbs to help Vega, Tripp and Celeste get to the Community Center. The path goes up, down, and sideways, but not diagonally. When you have finished, use each verb you found in a sentence. Write your sentences on a separate sheet of paper.

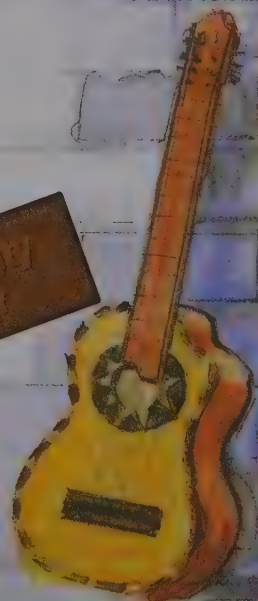


START

know	tell	come	well	each	into	she	there
my	one	wait	nod	friend	us	than	car
never	you	several	follow	lead	return	am	that
and	from	way	other	anything	to	say	about
see	smile	give	only	share	make	add	no
live	good	help	learn	have	shirt	every	cup
wave	they	wood	so	here	greet	stop	talk
visit	put	breathe	show	enter	explain	with	run



FINISH



Fun with Phonics

Sometimes two consonants together can make one letter sound. The "f" sound can be made by "ph" like in alphabet. The letters "gh" can also make the "f" sound like in tough. Search for ten words below that use the letters "ph" and "gh" to make the "f" sound.

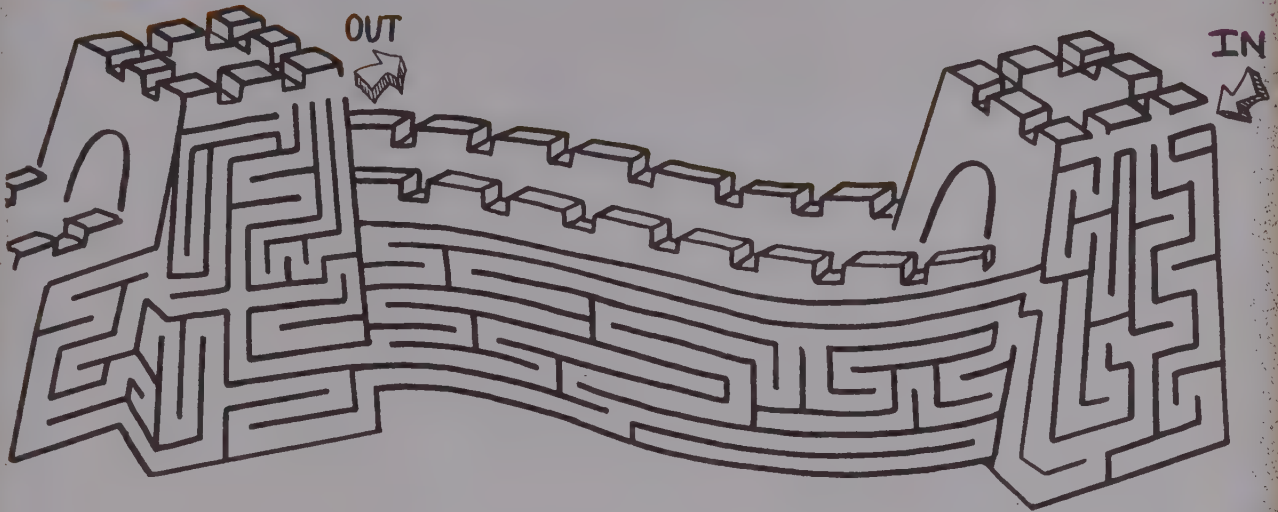
Word Search

The hidden words might be horizontal, vertical or diagonal.

E	P	H	O	R	T	E	L	E	P	H	O	N	E
G	L	O	U	O	G	H	E	M	H	A	U	A	N
H	W	E	Y	U	L	N	I	C	O	P	H	L	P
I	C	V	P	G	I	D	T	O	N	O	U	P	H
M	A	U	G	H	E	N	V	Q	I	S	A	H	P
A	U	Q	P	H	A	O	B	I	C	Y	W	A	I
N	C	L	O	U	G	N	R	T	S	X	L	B	D
U	O	G	H	M	Z	A	T	O	L	L	B	E	T
D	U	H	P	H	I	R	S	U	O	A	H	T	O
H	G	U	E	V	N	N	O	G	H	U	U	O	E
S	H	A	E	N	O	U	G	H	C	G	H	G	P
J	A	S	Q	U	G	H	W	R	A	Z	U	A	H
D	W	M	U	O	P	T	H	G	O	U	E	S	O



MAZE



Possessive Pronouns

Possessive pronouns show ownership.

Example: his book, her bike, our house

You can use possessive pronouns in front of a noun or on their own.

Example: That is my paper. → That is mine.

Rewrite the sentences using possessive pronouns.

1. The dog's dish is too full.

2. That toy is Sally's toy.

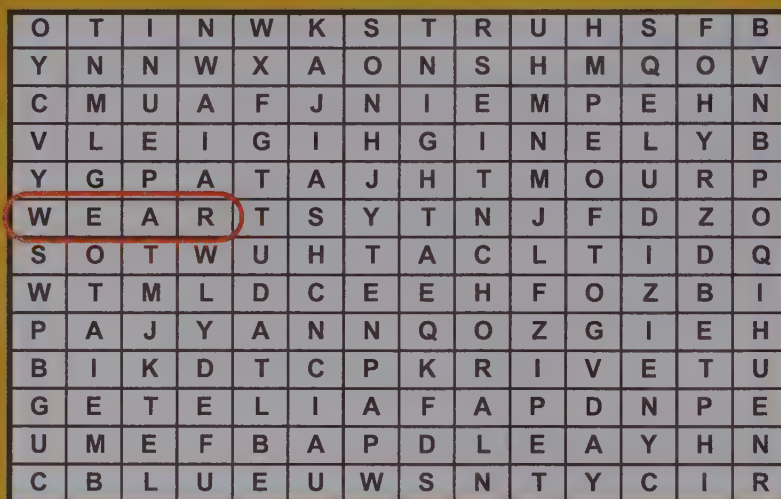
3. That cat is our cat.

4. Those shoes are Tony's shoes.



Homonyms Word Search

Homonyms are words that sound the same but mean different things. Find the homonyms for each word listed in the word search below. The first one is done for you. The hidden words might be horizontal, vertical or diagonal.



Example:

where wear

sun

coral

meet

beat

knight

blew

aunt

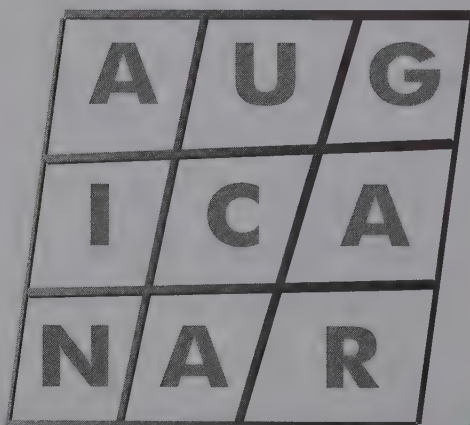
hour

in

squarely speaking

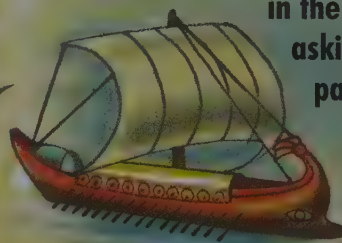
Using each letter only once, find the country by connecting square to touching square. (You may use diagonals.)

Start with the letter N.



*Recycling

Organize a recycling drive in your school, on your street, in your community, or in your home. It doesn't take much to start. Be sure to separate recyclable materials into different categories like glass, paper, plastics and metals. Find out where your nearest recycling center is by looking in the phone book or asking your parents for help.



Water's Skin

"Be careful!" warned Judy's dad. "It's going to spill!" Judy was pouring a glass of water and came very close to over-filling the glass.

"Whew! Just in time," exclaimed Judy. Then she noticed something strange. As she examined the top of the glass carefully, she noticed that the water actually seemed to rise above the edge of the glass!

"Hey Dad, look at this," said Judy. "It's like magic!"

Have you seen water, or another liquid, do this? Get a glass and some water and try. You have discovered an amazing thing about liquids' surface tension.

Now try this experiment.

What to do:

- 1) Fill the cup with water.
- 2) Sprinkle pepper all over the surface of the water. It floats, right?
- 3) Now take one drop of dish soap and touch it to the edge of the water's surface. What happens?

What you need:

- a cup
- water
- pepper
- dish soap

What's happening:

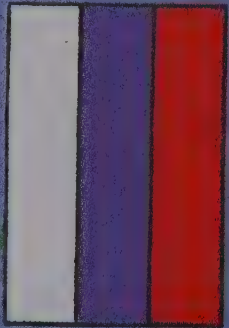
- The individual water molecules like to "stick together." They are attracted to each other and like to stay close together. The molecules at the surface act like a skin. This is called surface tension.
- When you first put the pepper on the water, the water molecules are so close together, the pepper floats on top of them.
- Soap is a surface tension breaker. The drop you added began to spread across the surface of the water. The pepper got pushed out of the way as the soap spread, until finally, all the surface tension was gone, and the pepper sank!

Remember to use the Scientific Method!

- 1) Make your hypothesis.
- 2) Record your observations.
- 3) Draw your conclusions.

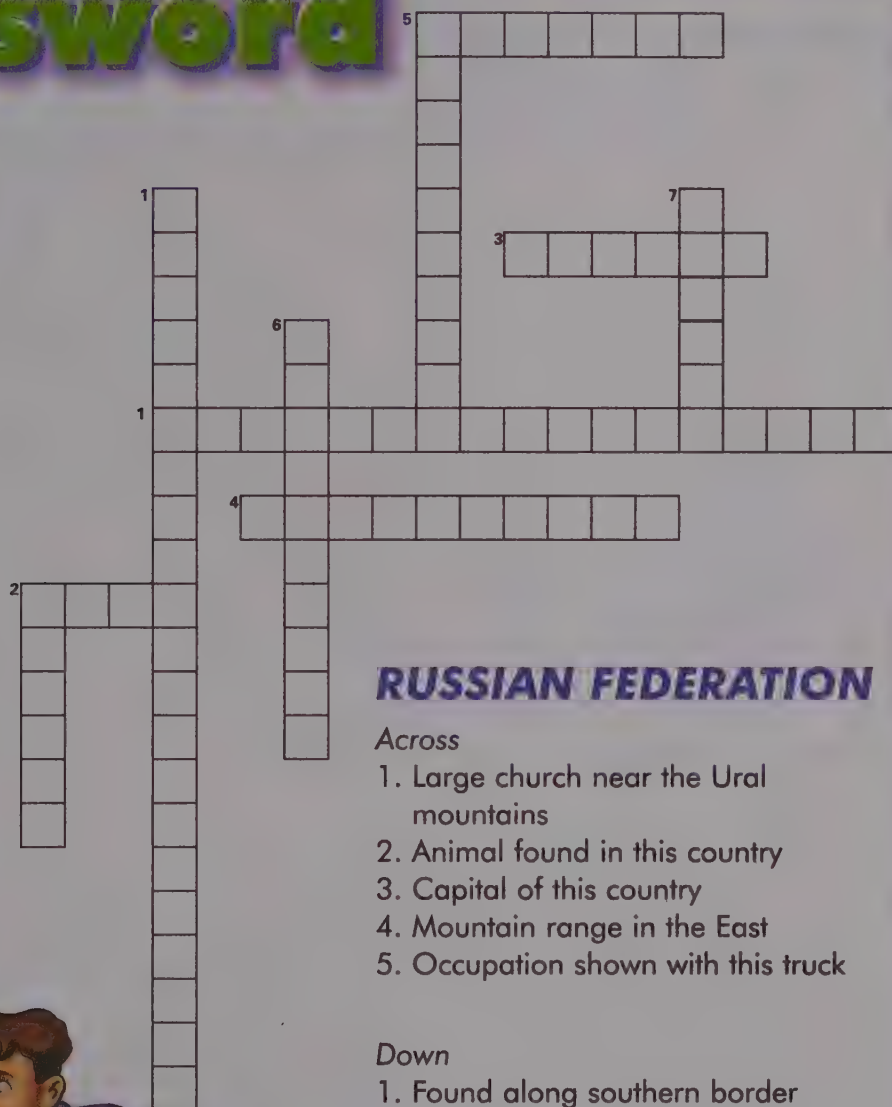


- CURRENCY ROUBLE
- POPULATION APPROX 145,000,000



Russian Federation! MONGOLIA

Crossword



RUSSIAN FEDERATION

Across

1. Large church near the Ural mountains
2. Animal found in this country
3. Capital of this country
4. Mountain range in the East
5. Occupation shown with this truck

Down

1. Found along southern border
2. Sea found in the northeast corner
5. Huge freshwater lake in the South
6. Land shown north of this country
7. Currency



Facts about Russian Federation

Russia stretches over Eastern Europe and Northern Asia. It is the world's largest country. The rouble is the currency used. Bears are native to this land. Russia produces one-fifth of the world's softwood, which makes logging an important industry.

Addition and Subtraction with Decimals

Complete the equations below. The first one has been done for you.

①

$$\begin{array}{r} 1.982 \\ + .741 \\ + \underline{.015} \\ 1.738 \end{array}$$

②

$$\begin{array}{r} .734 \\ - \underline{.322} \end{array}$$

③

$$\begin{array}{r} .229 \\ - \underline{.228} \end{array}$$

④

$$\begin{array}{r} .627 \\ + .459 \\ + \underline{.333} \end{array}$$

⑤

$$\begin{array}{r} .988 \\ - \underline{.576} \end{array}$$

⑥

$$\begin{array}{r} .521 \\ + .002 \\ + \underline{.597} \end{array}$$

⑦

$$\begin{array}{r} .225 \\ + .310 \\ + \underline{.427} \end{array}$$

⑧

$$\begin{array}{r} .839 \\ - \underline{.608} \end{array}$$

Arts & Crafts



Adult supervision may be required.

Summer Sketch Book

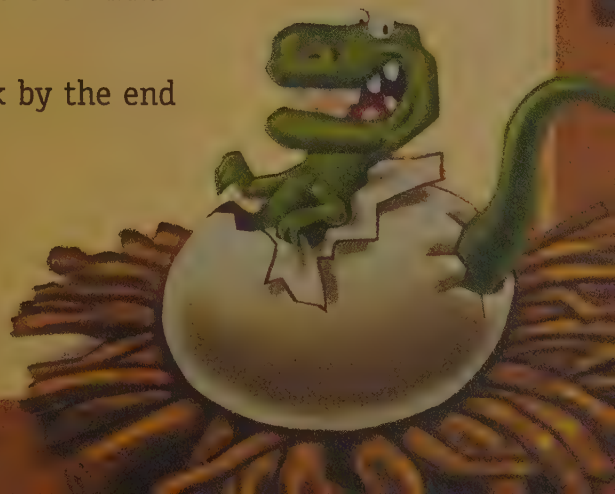
Materials:

- construction paper
- plain paper
- scissors
- glue
- stapler
- pencil



Directions:

1. Fold a piece of 12" x 18" (30 cm x 46 cm) construction paper in half to make a book.
2. Place some plain pieces of paper inside the book and staple the book together.
3. Cut out other pieces of construction paper to create a sun and a pencil. Cut different parts of the pencil and the sun from different colors of construction paper or decorate the cover with your own idea.
4. Label the book "My Summer Sketches."
5. Now go outdoors. Find a shady place to sit and then find something to sketch in your book.
6. Do this again on other days. Fill up your book by the end of the summer.





Volcanoes:

Shifting Plates

Adult supervision is recommended.

Scientists believe that Earth's crust is separated into many sections, or *plates*. These plates fit together like the pieces of a jigsaw puzzle. However, unlike a jigsaw puzzle, the plates slowly move in different directions. When plates bump into each other, astounding things can happen—mountain ranges can form, and volcanoes and earthquakes can occur!

When pressure builds up from plates pushing against each other, the plates can break and send shock waves through the ground. This results in an *earthquake*, which can last for a few seconds or for several minutes. In this experiment, you will see how pressure can result in an earthquake.

Materials

shallow cardboard box
scissors
damp dirt or sand



Directions

1. Gather your supplies and take them outside.
2. Use scissors to cut the cardboard box in half. Then put the box back together, one cut edge overlapping the other.
3. Fill the box with damp dirt or sand. (You can add water to dry dirt or sand if necessary.)
4. Slowly push the two parts of the box together. What happens to the sand? Does it make an "earthquake"?

Extension

Use the library to research newspaper articles about recent volcanic activity or eruptions and recent earthquakes. Then choose one of the events, and use it to answer the five **W**'s of reporting: Who is involved? What happened? Where did it happen? When did it happen? Why did it happen? Write your answers to the five **W**'s on the lines below.

Journal

Use a blank sheet of paper if you need more space.

The coolest part about summer is...



weird science

There is enough water in the earth's atmosphere that if it all fell down at one time it would cover the whole globe with more than an inch (3 cm) of rain!

Number Lines

Write the number that belongs where the question mark is on each of the number lines below.



Riddle Me This?

Journal

Within me is a "Red Square."
The beginning of my name
sounds like it is in a hurry.

What country am I?

I'm thankful today because...

Math Games

Do you see a pattern? Fill in the blanks with the correct number to complete the pattern.

1.

6

12

48

96

2.

5

10

20

80

3.

7

14

56

112



Wanted: Volunteers

Chapter 7



The group met early the next day to walk to the Center and update Ms. Darcy on their progress.

"Look at that!" Tripp pointed to a young man in an empty lot.

As the children watched, the wind eased and a triangular kite floated gracefully downward. The young man began winding up the string. He noticed the children watching and nodded his head in greeting.

"It's beautiful," called Celeste. "I've never seen a kite like that."

"Thanks. It's called a delta," said the man, walking toward them. "I'm Ken Kuo."



"Hi, I'm Celeste. I've seen you at my sister's school. My friends are Tripp and Vega. We really like your kite."

Ken smiled. "I just made it and came here to do a test flight."

"You made it?" exclaimed Vega.

Ken chuckled. "People have

been making kites for a couple thousand years now. With just a few simple supplies, they're not too hard to make."

Celeste had an idea. "Ken, could you teach other people to make kites? Maybe even a bunch of people—at the Community Center?"

"Does the Center offer that kind of class?" asked Ken.

"It can if you'll teach it!" said Tripp. "You should talk to the director."

"I guess that would be all right," agreed Ken. "It might be fun."

As the three turned away, a city bus went past. One side of the bus displayed an ad for the zoo. Celeste froze. "Did you see those koalas? Come on, guys!"

Forgetting the Center, they ran to Celeste's house. Pushing open the front door, she called to her older sister. "Cassie? Can you go with us to the zoo tomorrow?"



Chapter 7

Skill: Vocabulary

Choose the correct definition of each word from the story. Circle the letter in front of your choice.



1. empty

- a. damp
- b. slow-moving
- c. containing nothing
- d. dirty

2. triangular

- a. having three sides
- b. with straight sides
- c. extra
- d. regular

3. gracefully

- a. straight
- b. with beautiful movement
- c. in a random way
- d. in a quick way

4. chuckled

- a. scowled
- b. cleared the throat
- c. snorted
- d. laughed softly

5. couple

- a. many
- b. none
- c. two
- d. a dozen

6. simple

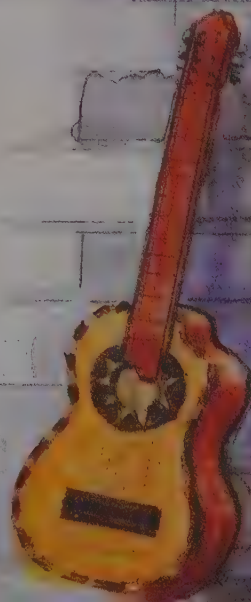
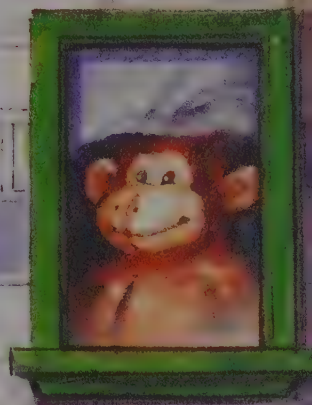
- a. special
- b. easily done or used
- c. homemade
- d. costly

7. supplies

- a. equipment
- b. instructions
- c. money
- d. wooden sticks

8. director

- a. an elected official
- b. a volunteer
- c. a person who leads or guides
- d. creator



Fix the Facts

My friend Molly has been sending me letters in the mail. She moved away a few months ago. I really miss her, but we keep in touch by writing letters to each other. I save all Molly's letters so I can read them again when I'm feeling lonely. Can you figure out the order in which Molly sent the letters below to me?

A.

Hi Sue,

Did you get my letter about coming to school with me? Let me know if the date is okay with you.

Your friend,
Molly

B.

Hi Sue,

How are you doing? I am so glad you can come next Friday and spend the weekend. It will be great taking you to my new school.

Your friend,
Molly

C.

Hi Sue,

It's been three weeks since I moved! Thank you for calling me the other night. I really enjoyed our conversation. It was great to hear your voice. I can't wait until we can hang out again.

Your friend,
Molly

D.

Hi Sue,

I really miss you! I have been here a week now. I met some new friends. They seem very nice. Call me soon, okay? I hope you're fine.

Your friend,
Molly

E.

Hi Sue,

I can't believe it's been a month since I've moved away. Two weeks from Friday is "bring a guest to school day." I wonder if you want to be my guest? Let me know if you can come. I have to do my homework now.

Your friend,
Molly

F.

Hi Sue,

Thank you for coming to my school. It was great to get to hang out just like old times. Hope to see you soon.

Your friend,
Molly

1. _____

4. _____

2. _____

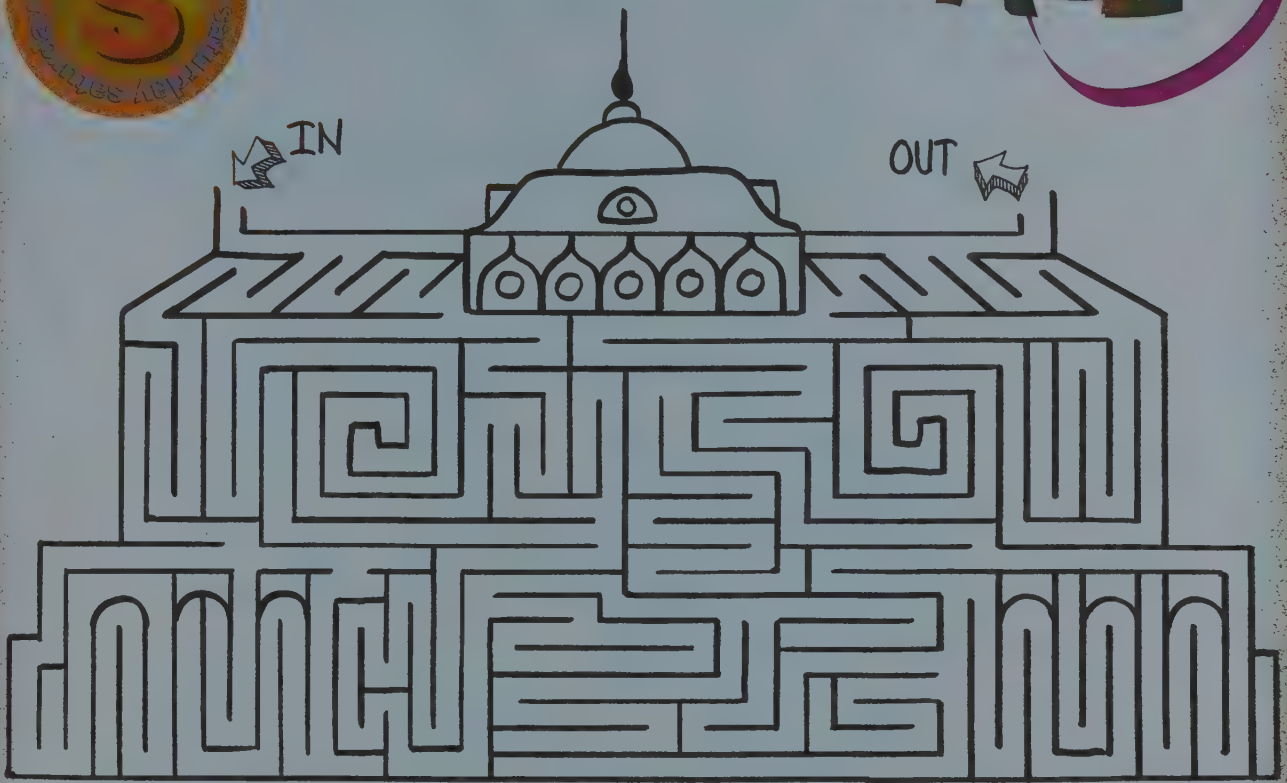
5. _____

3. _____

6. _____



MAZE



Correct the Sentences

Add the correct punctuation and capitalize the proper nouns and the beginning words of each sentence.

1. where are you going on vacation sally
2. we are going to my grandmas cottage in minnesota
3. i've heard it gets really really cold in minnesota
4. it is cold in the winter but the summers are warm



Making Deductions

Making a deduction is thinking logically and coming to a conclusion.

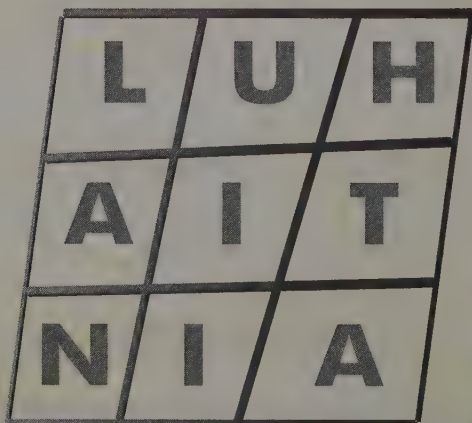
Read the sentence below and make a deduction.

1. Angela was happy. Bert was happier than Angela.
Karen was happier than Bert. Who was the happiest?
2. Scott was tall. Susan was taller than Scott. Victor was taller than Susan. Who was the tallest?
3. Evan ran fast. Bob ran faster than Evan. Jim ran faster than Bob. Who ran the fastest?

squarely speaking

Using each letter only once, find the country by connecting square to touching square. (You may use diagonals.)

Start with the letter L.



*Recycling

If every commuter carried one more passenger daily, we'd save 600,000 gallons (2,271,000 litres) of gas, and keep millions of pounds of pollution out of the atmosphere every year!



Magic Markers

Is a black marker just a black marker? Is green just green? Actually, the colors in markers are sometimes made of other colors mixed together. You can test this for yourself in this colorful experiment.

What you need:

- a set of markers
- water
- a cup or mug
- scissors
- long pencils or pens
- a coffee filter
- tape
- paper and pencil
- ruler

What to do:

- 1) Cut the coffee filter into a 1/2 inch (1 cm) by 7 inch (18 cm) strip.
- 2) Choose three different colored markers and put three different dots horizontally along the paper, about 3 inches (8 cm) from the bottom.
- 3) Put one of the long pencils or pens in the cup.
- 4) Tape the end of the coffee filter to the end of the pen that is sticking up out of the cup.
- 5) Carefully fill the cup with water so just the bottom of the filter paper gets wet.
- 6) Observe what happens as the water spreads up the filter paper.
- 7) Record what combinations of colors make the single marker color.

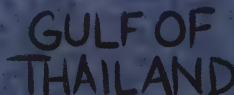
What's happening:

As the water spreads through the dot you made with the marker, it separates the colors out of the marker in a beautiful display. You can test all of your markers!

- Which markers are made of the most colors? The fewest?
- How do the colors change as time passes?
- Can you still see the original color you started with?
- Does this work with all markers? See if you can find a permanent marker or highlighter to test.

Remember to use the Scientific Method!

- 1) Make your hypothesis.
- 2) Record your observations.
- 3) Draw your conclusions.



ANDAMAN
SEA

MALAY

- LANGUAGE THAI
- CURRENCY BAHT
- POPULATION . . . OVER 63,100,000

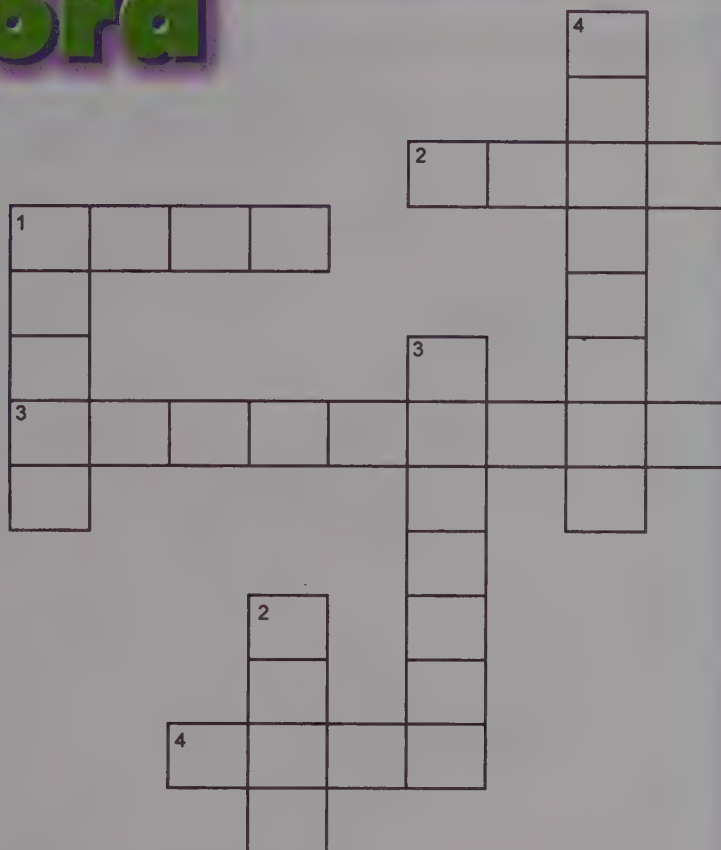
<u>ENGLISH</u>	<u>THAI</u>
HELLO	SA WAD DEE
GOODBYE	LA KON
PLEASE	KA RU NA
THANK YOU	KOP KUN

Crossword

THAILAND

Across

1. During Thailand's monsoon season, lots of _____ falls every day.
2. The central plains of Thailand are covered with _____ paddies. This small white grain is a staple of the Thai diet.
3. In northern Thailand, these enormous animals are used to haul lumber out of the mountain forests.
4. _____ is a beautiful and expensive fabric that is a main export of Thailand. It is made of fine fibers that are spun by worms.



Down

1. Many Thai people live in houses built on stilts along the Chao Phraya, which is a main _____ in Thailand.
2. Thailand is located in the southeast portion of this continent.
3. _____ is the capital and largest city in Thailand.
4. On farms in southern Thailand, monkeys are trained to climb tall palm trees to help harvest these large, brown, hard-shelled fruits.



Facts about Thailand

Thailand is located in Southeast Asia. Bangkok is the capital and largest city in Thailand. Thailand gets lots of rain during the monsoon season. The Chao Phraya is a main river in Thailand where many people live in houses built on stilts. The central plains are covered with rice paddies. Rice is a staple part of the Thai diet. Silk, spun by worms, is a main export. Thai people use animals to help with their work. Elephants haul lumber out of the mountain forests in the north and monkeys help harvest coconuts in the south.

Measuring Area and Perimeter

Area measures the number of square units needed to cover something.

Perimeter measures the distance around something.

Measure the area in square units and the perimeter in units (one side of the square unit) for the shapes below:

Example



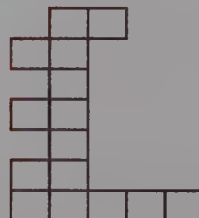
$$\begin{array}{lcl} \text{Area} & = & 8 \\ \text{Perimeter} & = & 14 \end{array}$$

①



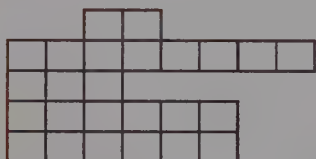
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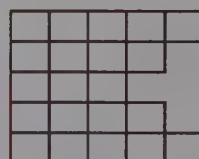
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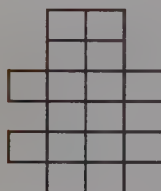
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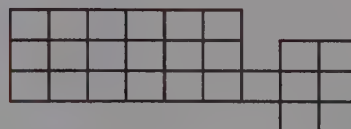
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⑤



$$\begin{array}{lcl} \text{Area} & = & \underline{\hspace{2cm}} \\ \text{Perimeter} & = & \underline{\hspace{2cm}} \end{array}$$

⑥



$$\begin{array}{lcl} \text{Area} & = & \underline{\hspace{2cm}} \\ \text{Perimeter} & = & \underline{\hspace{2cm}} \end{array}$$

Arts & Crafts



Adult supervision may be required.

Pillowcase Critter

Materials:

- plain pillowcase
- cardboard
- fabric paints (paint-writer style)
- tissue paper
- ribbon



Directions:

1. Slip a piece of cardboard inside the pillowcase.
2. Use the fabric paints to paint a big, funny face on the pillowcase.
3. When the paint is dry, remove the cardboard from the pillowcase.
4. Stuff the pillowcase with tissue paper.
5. Gather the end of the pillowcase and tie it off with ribbon.
6. Set your funny critter on your bed or in your room.





Volcanoes:

The Ring of Fire

Adult supervision is recommended.

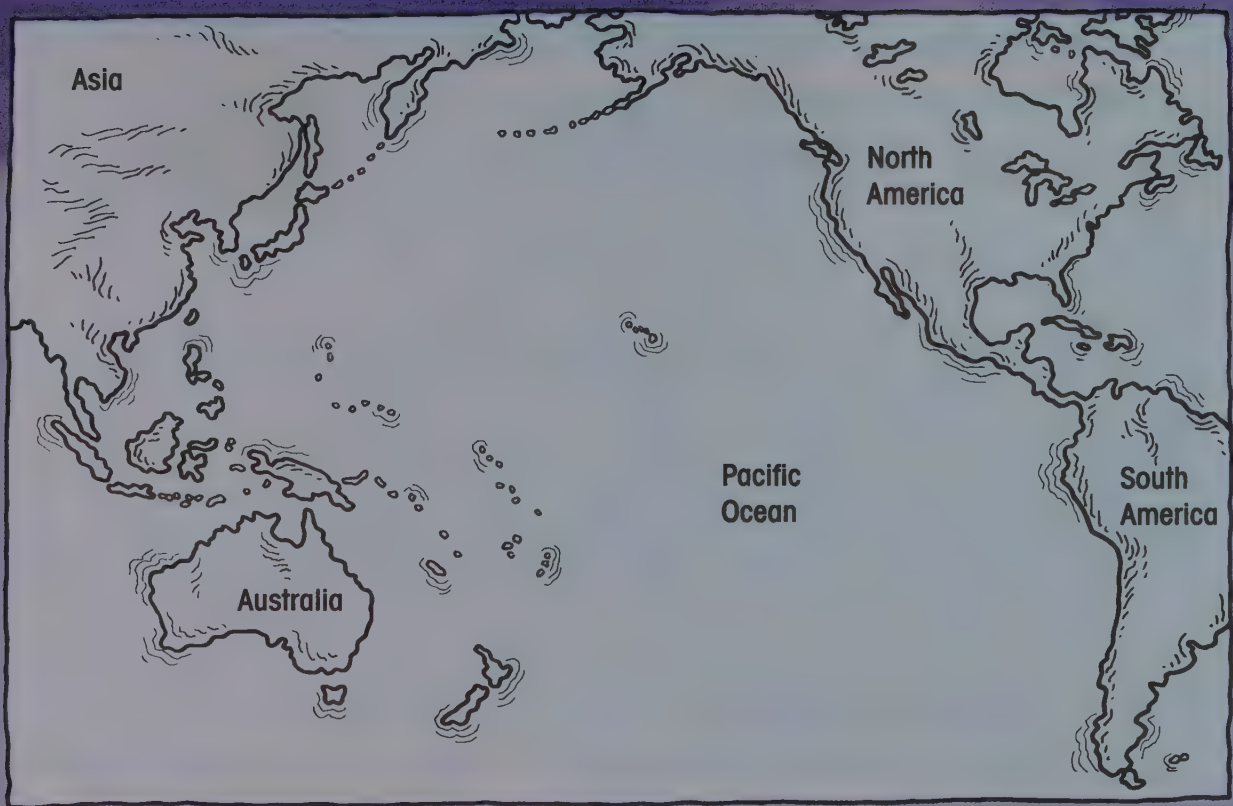
Many volcanoes form on top of or near the edges of plates, where the Earth's crust is weakest. Sometimes plates collide and one is forced on top of another. Colliding plates have produced volcanoes in the Pacific Ocean. The rim of this area, known as the Ring of Fire, contains more than half of the world's active volcanoes! Earthquakes also are common along the Ring of Fire.

Materials

pen or pencil

Directions

1. Research the Ring of Fire at the library. Take notes on the lines below as you research.
2. On the map on the next page, mark the volcanoes located in the Ring of Fire.



Extension

Volcanoes can cause a lot of damage, but they also can bring some benefits. Volcanic ash, for example, helps make soil more fertile for farming. Use resources at your local library to learn about other benefits that can come from volcanoes. List these benefits on the lines below.

Journal

Use a blank sheet of paper if you need more space.

One thing that nobody knows about me is...



weird science

Everyone's heard of black holes in space. Did you know black holes are so dense that nothing can escape their gravity? Not even light!

Rounding

Round the following numbers to the nearest hundred. If the number has five tens or more, round it up to the next highest hundred. If it has four tens or less, round it down to the nearest ten.

Examples: 125 → 100 192 → 200

1. 559 → _____

5. 678 → _____

2. 471 → _____

6. 381 → _____

3. 812 → _____

7. 261 → _____

4. 939 → _____

8. 751 → _____

Riddle Me This?

Journal

I am known for fine embroidered silk, kick boxing and spicy food. The first syllable of my name sounds like something you do to your shoes.

What country am I?

I'm thankful today because...

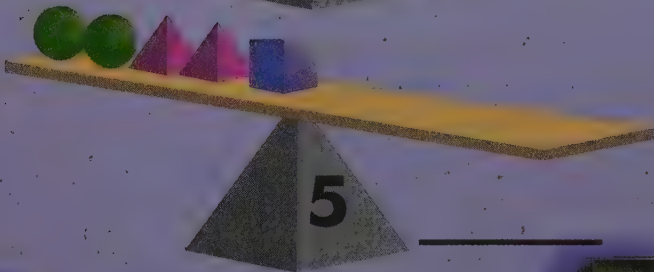
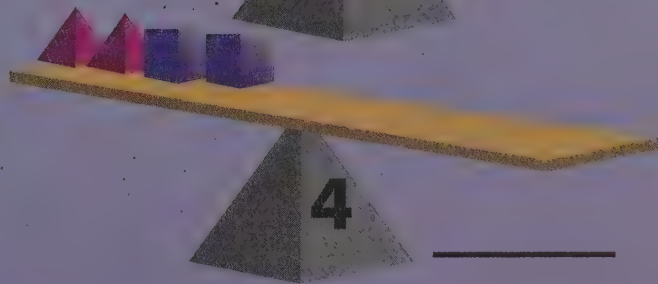
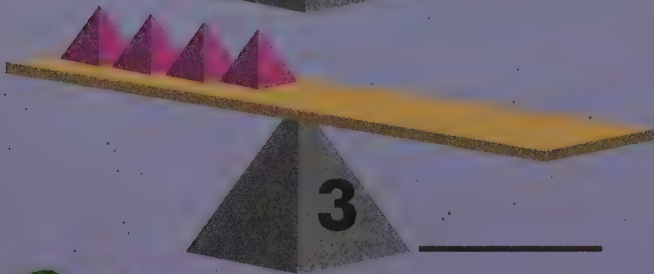
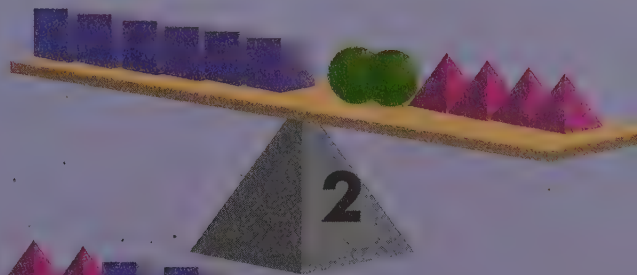
Math Games

Each shape has a value. Scales 1 and 2 are in perfect balance.
How many circles are needed to balance scales 3, 4 and 5?

 = 6

 = 8

 = 2



Wanted: Volunteers

Chapter 8



Cassie, Vega and Celeste were the first in line for the zoo. Tripp, still being mysterious, was busy with another errand and unable to join them.

"The kangaroos are over there!" Celeste was so eager to see the Australian exhibit that she almost dragged her sister Cassie along.

"Here they are! Look how pretty their eyes are!" Celeste leaned over a fence, wanting to get closer.



"I'd say pretty fast," said Vega, reading a large plaque. "Kangaroos can go 40 miles an hour. What would that be in kilometers, Celeste?"

"That would be...about 64.37 kilometers per hour."

"Thank you, Miss Calculator," teased Vega.

After watching the kangaroos quietly nibble on grass, the girls headed for the office. Once there, Cassie, Vega and Celeste were taken to the zoo's community coordinator, Mrs. Craig. Celeste explained how they were recruiting volunteers for the

Community Center and how much she liked kangaroos.

Mrs. Craig asked, "Would you like to add the Touring Zoo to your list?"

"The Touring Zoo?" Celeste looked blank.

"It's a bus that travels around to teach about the zoo's programs and animals. It sounds as if you'd like some wallabies aboard."

"Wallabies?" wondered Vega and Celeste.

Mrs. Craig smiled. "They're a smaller version of a kangaroo. They fit on the bus better." Everyone laughed. "Have your Community Center director fill out these papers."

"Thank you," said Celeste. Vega froze as the children walked out. She pointed at the advertisement on the bus stop bench. "Come to the Rain Forest. See Brazil."

Cassie knew what Celeste and Vega were thinking. "I can't go tomorrow, but we can go the day after." They made plans to visit the Natural History Museum.



Chapter 8

Skill: Adverbs



To answer each question, find the adverb in the story that tells how, when or where something happened. The first one has been done for you.

1. How did the kangaroos nibble on grass? QUIETLY
2. Where are the kangaroos? _____
3. How eager was Celeste? _____
4. Where does the zoo bus travel? _____
5. Where do the children walk? _____
6. When can't Cassie go to the museum? _____



Now complete these sentences. Use adverbs to tell how, when or where the action happened.

7. The other day I walked _____ (tell how) down the sidewalk.
8. Mom moved my fish tank _____ (tell where).
9. I read the greatest book _____ (tell when).
10. "Lisa," said Larue _____ (tell how), "come here."



CRAZY CAPERS

Who Robbed Oakville Bank?

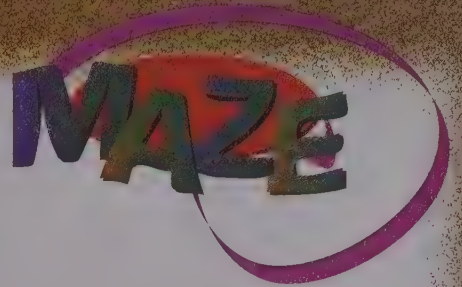
Someone robbed Oakville Bank and it is up to Officer Chen to catch the criminal. He interviewed three witnesses. Because their memories were a little foggy, the witnesses each remembered one thing correctly and the other one wrong. Based on the statements from the witnesses below, can you help Officer Chen determine who the bank robber is?

Witness #1: *He had a beard and sunglasses.*

Witness #2: *He wasn't wearing sunglasses or a hat.*

Witness #3: *He didn't have a beard, but he did wear a hat.*





Subject Verb Agreement

Circle the correct verb for each sentence.

1. Sara (runs, ran) to the store yesterday.
2. Randy (will go, went) to school tomorrow.
3. Rachel (photographs, will photograph) the animals at the zoo next month.
4. The student (finished, finish) the test first.



Combine the Sentences

Combine each set of sentences into one. The first one is done for you.

1. Mary planted flowers yesterday. Mary is my friend.

Mary, my friend, planted flowers yesterday.

2. Joe is really tall. Joe is my brother.

3. Fred is a policeman. Fred is my uncle.

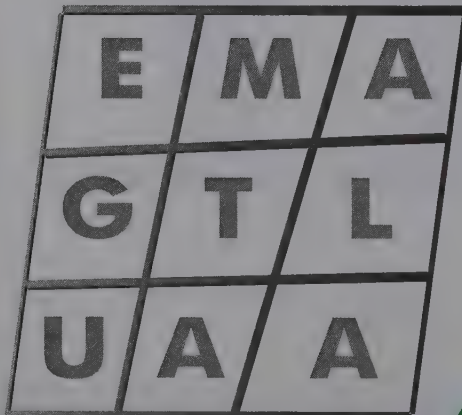
4. Bob is my neighbor. Bob mows his lawn on Sunday.

5. Frances likes to dance. Frances is my cousin.

squarely speaking

Using each letter only once, find the country by connecting square to touching square. (You may use diagonals.)

Start with the letter G.



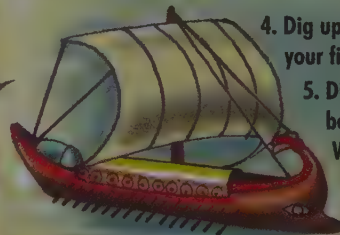
Recycling

Biodegradable means that a material can be naturally broken down and absorbed into the ground or environment. You can test objects to see if they are biodegradable!

1. Collect different objects that you might throw out (i.e., a tin can, paper, plastic bag, glass bottle, and potato or apple peelings).
2. Go outside and bury each item in a small hole. Mark their sites so you won't forget where they are.
3. Give the objects time to degrade—three weeks to a month.

4. Dig up the items and note your findings.

5. Did some break down better than others? Which ones didn't break down?



Science Project

Adult supervision may be required.

There's Air in There

Air is everywhere. You can't see it, you don't usually feel it, most of the time you probably don't even think about it. So how do you know it's there? Here is an experiment that wouldn't be possible without the air!

What to do:

- 1) Fill the bowl about halfway with water.
- 2) Crumple up a piece of paper and stuff it down into the cup so that it is stuck to the bottom of the cup.
- 3) Turn the cup upside down.
- 4) Carefully place the cup straight down into the water.
- 5) Will the paper be wet or dry when you take out the cup?
- 6) Check the paper by bringing the cup straight up out of the bowl.

What you need:

- a cup
- a bowl
- water
- paper

Why it's dry:

The paper stays dry inside the underwater cup because there's air in there!

- There is air inside the cup along with the paper.
- When you put the cup down inside the water, the air stays inside the cup. Air takes up room.
- Since the air is taking up all the space inside the cup there's not enough room for the water to come in. As a result, the paper stays dry!
- What would you have to do to get the paper wet? Where does the air go?

Remember to use the Scientific Method!

- 1) *Make your hypothesis.*
- 2) *Record your observations.*
- 3) *Draw your conclusions.*



ENGLISH	PORTUGUESE
•HELLO	OLÁ
•GOODBYE	ATÉ LOGO
•PLEASE	POR FAVOR
•THANK YOU	OBRIGADO
•CURRENCY	RÉAL
•POPULATION . . .	APPROX 177,000,000



Brazil!

Crossword

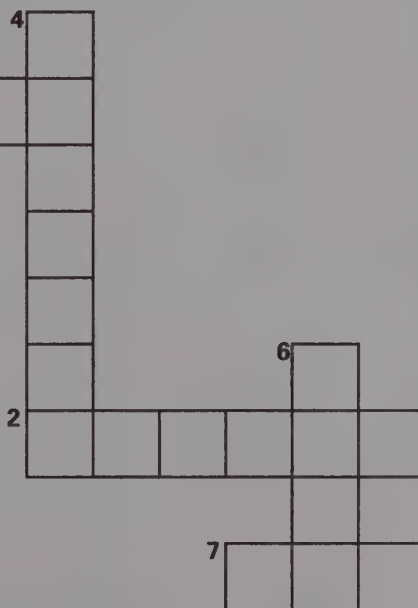
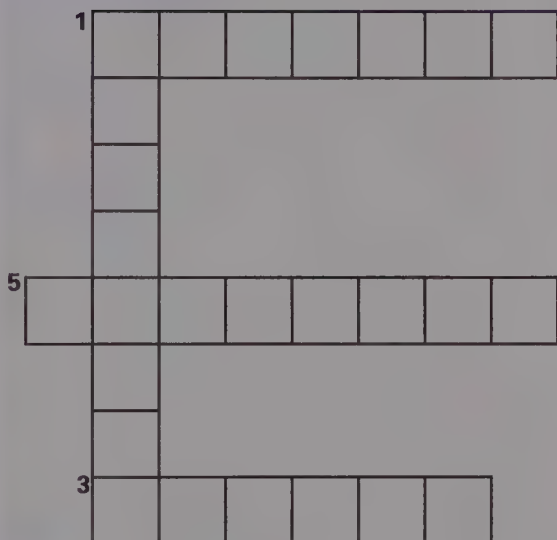
BRAZIL

Across

1. Yellow fruit grown here
2. Very popular sport
3. River running east-west
5. This city is on the Atlantic Ocean
7. "Hello" in native language

Down

1. Town near Venezuela
4. Big-beaked birds
6. Currency



Facts about Brazil

Brazil is located in South America and is the fifth largest country in the world. Brasilia is the capital but Rio de Janeiro, located on the Atlantic Ocean, used to be the capital. Bananas and coffee are grown in Brazil and toucans, big-beaked birds, are native to Brazil.

Place Value

Write the correct number on each line. The first one is done for you.

	100,000s	10,000s	1,000s	100s	10s	1s
1.	//// /	///	//// /	//	///	//// /
2.	/	//// //	////	////	//// //	/
3.	//// /	//// /	//// //	//	///	////
4.	//	////	//// //	/	//	//// /
5.	//// //	///	//// //	////	////	//// //
6.	////	//// //	/	////	//	/
7.	///	////	//// /	/	//// //	///
8.	//// /	/	////	//// /	//	//// //

1. 736,238

5. _____

2. _____

6. _____

3. _____

7. _____

4. _____

8. _____

Arts & Crafts



Adult supervision may be required.

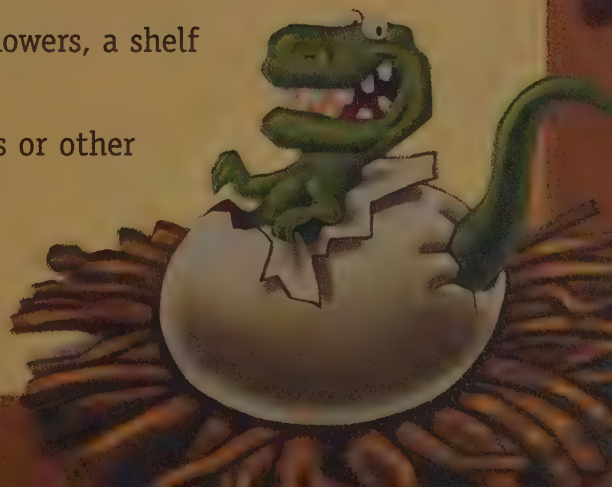
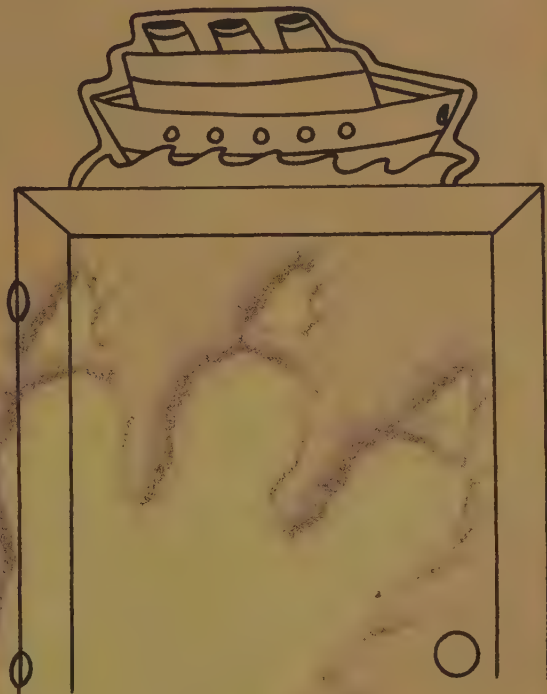
Door Top Decor

Materials:

- poster board or thin cardboard
- markers or paints
- scissors
- pencil

Directions:

1. Pick out a room with a door in the house.
2. Pick out an object that will go with that room. For example, if your room has a ship theme, use a ship shape.
3. Draw the object on the poster board as shown.
4. Cut out the top and sides. Leave the bottom edge straight.
5. Decorate the object with paint or markers.
6. Hang it above the door frame.
7. Other designs you might create are a row of flowers, a shelf of books, teddy bears in a row, or a rainbow.
8. Get creative! Try gluing fabric, glitter, buttons or other small objects to your design.





Volcanoes:

Shield Volcano, Step 1

Adult supervision is recommended.

Materials

old newspapers
4 c. (946.4 ml) water
 (2 c. [473.2 ml] cold;
 2 c. [473.2 ml] boiling)
 $\frac{1}{2}$ c. (118.3 ml) flour
3 T. (44.4 ml) sugar
saucepan
masking tape
large sheet of cardboard
 or plywood, or a foil tray,
 at least 24 in. $\times$ 16 in.
 (60.9 cm $\times$ 40.6 cm)

In contrast to stratovolcanoes, which are tall and thin, shield volcanoes are tall and broad. Their flat, rounded shapes and gentle slopes are made by multiple eruptions of lava that often travel great distances. Some shield volcanoes are more than one million years old!

Mauna Loa in Hawaii is the largest shield volcano on Earth. At its base on the sea floor, Mauna Loa is about 75 mi. (120.7 km) long and more than 5.5 mi. (8 km) tall.

Directions

1. Tear about 15 sheets of newspaper into 2-in. (5.1-cm) strips. Soak the strips in warm water. Prepare the paste.
2. Mix the flour with 2 c. (473.2 ml) of cold water in a bowl. With an adult's help, boil 2 c. (473.2 ml) of water in a saucepan.



5.5 mi.
(8 km)

75 mi.
(120.7 km)

Mauna Loa

3. Add the flour mixture to the boiling water. Return to a boil.
4. Remove from heat and add the sugar.
5. Let this mixture cool at least a half hour; it will thicken as it cools.
6. Ball up about eighteen pieces of newspaper (*not* the newspaper strips; they are still soaking). Pile them to form a tall, but wide, cone shape on the cardboard or plywood. An uneven, "bumpy" form will make a more realistic volcano. Hold the cone together loosely with a few pieces of masking tape. Keep a small opening at the top for the volcano vent. Make sure the opening is large enough to fit a small plastic or paper cup or an empty film cylinder.
7. Remove the newspaper strips from the water one at a time. Drain excess water from each strip.
8. Dip one strip into the paste. Overlap it vertically on the volcano from the top to the bottom. Run the top edge of the strip over the rim of the vent and tuck it into the opening.
9. Repeat steps 8 and 9, overlapping the remaining strips vertically around the form.
10. Set the volcano form in a place where it can dry thoroughly for one to two days. Cover the paste and keep it in the refrigerator until you are ready for the next layer.
11. After the first layer has dried, prepare to add a second layer of newspaper strips to your model. Tear and soak more newspaper strips.
12. Then repeat steps 8 and 9 until you have added an entirely new layer of newspaper strips.
13. Set your volcano in a safe place and allow it to dry thoroughly for another one to two days.

Extension

Sometimes a volcano is completely submerged. When an underwater volcano erupts, it sometimes can produce a *tsunami*. Use print resources to find out what a tsunami is, and then write the definition on the lines below.

Journal

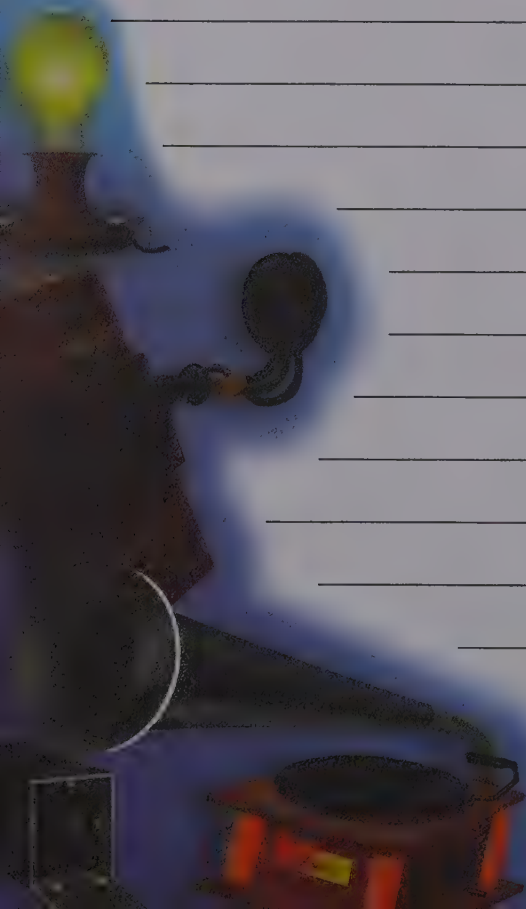
Use a blank sheet of paper if you need more space.

Sometimes I wish I were a grown-up,
that way I could...



weird science

The sun is so hot it is
estimated that the core is at
least 25,000,000 degrees
Fahrenheit (14,000,000
degrees Celsius)! That's hot!



Riddle Me This?

Journal

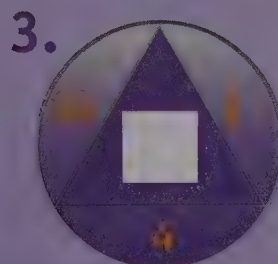
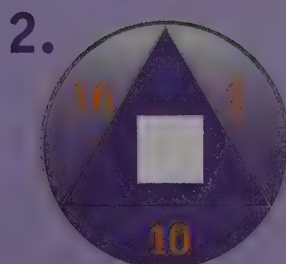
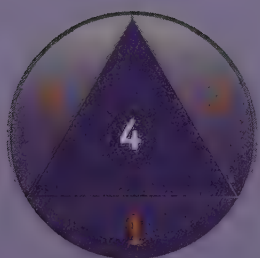
I am one of the most populous countries in South America. Spell my name backwards and I come close to being a reptile.

What country am I?

I'm thankful today because...

Math Games

Do you see a pattern? Fill in the blanks with the correct number to complete the pattern.



Wanted: Volunteers

Chapter 9



All were present for their trip to the museum. Slowly, they looked at each exhibit.

"Wow," said Vega. The walls seemed to have huge tree trunks growing from them. And the ceiling was a never-ending mass of branches and leaves.

Hidden television screens showed pictures of colorful and unusual animals and birds. And the sounds! The children had never heard such hoots and screeches.



Tripp read from a poster. "It says that Brazil has the third-largest block of rain forest in the world. But 13,000 square kilometers are cut or burned down every year. What is that in square miles, Celeste?"

She closed her eyes. "About 5,019.33 square miles."

"Can I help you?" Celeste jumped. A museum guide had come up behind her.

Celeste laid out their plans for the Community Center. The guide listened patiently and then said, "Come with me, please."

They followed him to the assistant director's office. Inside, he spoke to Mr. Tanner for a moment and then introduced everyone.

"Clark explained your plans," he said. "We don't usually do this, but all the rain forest branches, animals, and displays you saw have to go into storage next week. Maybe you could store some of them at your Community Center for a while?"

Vega was the first to respond. "Thank you!" Tripp gave Mr. Tanner the Center's phone number so he could talk to Ms. Darcy.

Later, Tripp, Vega and Celeste celebrated in Vega's living room. Vega noticed messages on the answering machine. The first was from Ms. Darcy asking them to come to her office the next morning.

A second message was from Tripp's mom, asking him to come home. Something big was waiting for him.



Chapter 9

Skill: Adjectives

**Answer these questions
about Chapter 9. Use adjectives
for your answers.**

1. What kind of tree trunks seemed to grow out of the walls?

2. What kind of animals showed on the screens?

3. How many square miles did Celeste calculate?

4. In which week does the display have to go into storage?

5. In which room were the children celebrating?

6. On which morning are the children to meet Ms. Darcy?

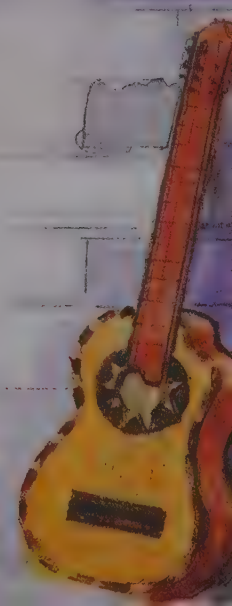
Challenge

In this chapter, Celeste used mental math to make difficult calculations. Use the following formula to change miles to kilometers: $m \times 1.609 = km$

1. 80 miles = _____ km

2. 120 miles = _____ km

3. 10 miles = _____ km



Fix the Facts

Tara's mom told her that she could plan her birthday party all by herself. As a helpful hint, her mom told Tara to keep notes of her ideas so she wouldn't forget them. Tara did keep notes, but she didn't bother keeping them in order. Can you help Tara put her notes in order so she can review them?

A.

My birthday is in two weeks and my mom said I could plan it all by myself. I'm taking notes so I don't forget anything. The first thing I need to do is decide on a theme and make a list of people to invite.

B.

Today I filled out my invitations. My party will be next Saturday afternoon at 2:00 p.m. I am inviting nine friends. The next thing I need to do is order the cake this morning—I think I'll make it my favorite, chocolate!

C.

My mom and I are going to pick up the cake this morning. Everything else is set. My dad helped me put up the decorations and my little brother helped with the party favors. Planning a party is a lot of work!

D.

Today I asked my mom if she knew of a good bakery where I could order a cake. She told me she'd take care of the ordering if I told her what type of cake I wanted. I said I wanted it to be chocolate with cats on it. I hope it tastes good and looks good, too!

E.

I found the cutest invitations. They have all kinds of cats and kittens on them. I will begin filling them out soon. First I need to decide what time to have my party.

F.

I decided I want cats as my theme. I want decorations with cats, a cake with cats, and invitations with cats. I love cats! I'm going to the store with my mom tonight to see if we can find decorations and invitations with cats on them.

1. _____

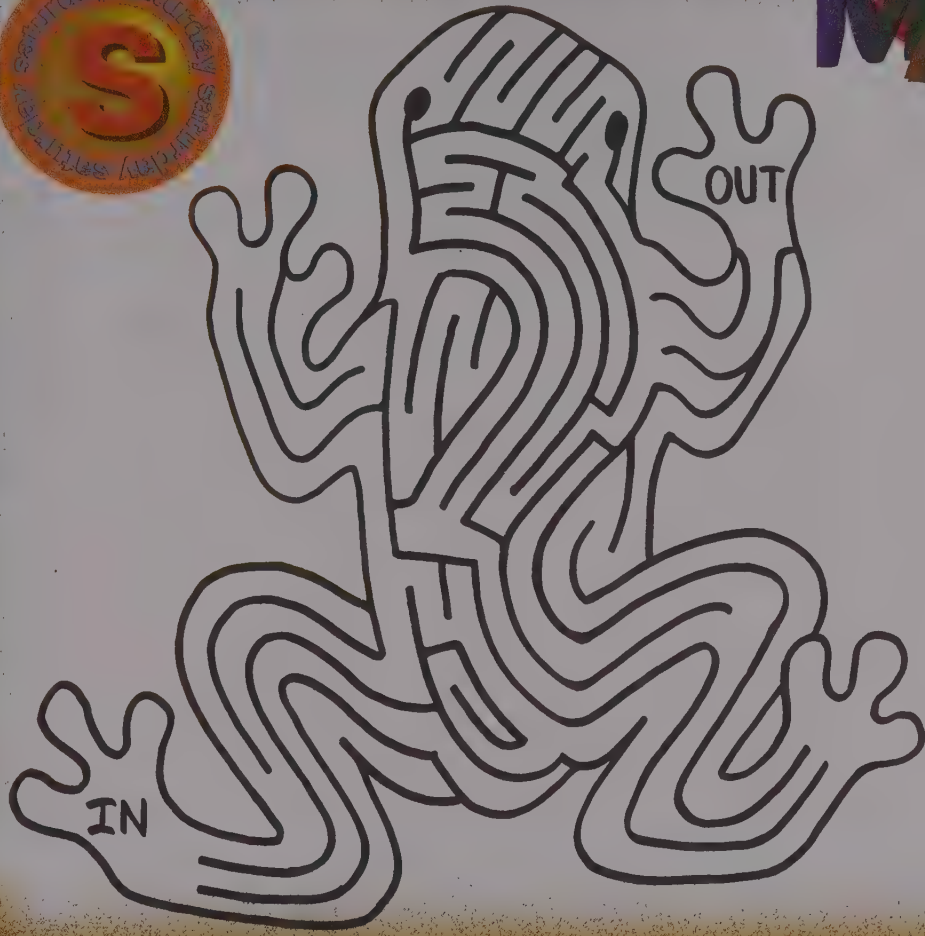
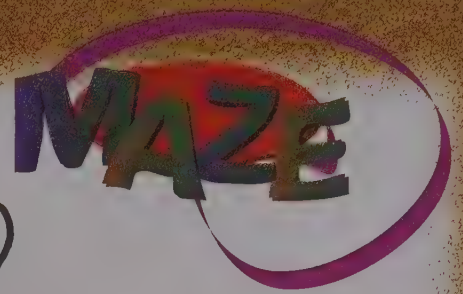
4. _____

2. _____

5. _____

3. _____

6. _____



Unscramble the Geography

Listed below are names of the countries from the geography sections on Monday. Unscramble the names. Remember to capitalize the first letter.

- | | |
|-------------------------|--------------------|
| 1. gtpye _____ | 5. nciha _____ |
| 2. zrbail _____ | 6. nadii _____ |
| 3. udntie gidknmo _____ | 7. yltia _____ |
| 4. saaruilta _____ | 8. dniaahltl _____ |



Fact vs. Opinion

Facts can be proven to be true.

Opinions express what someone thinks or feels.

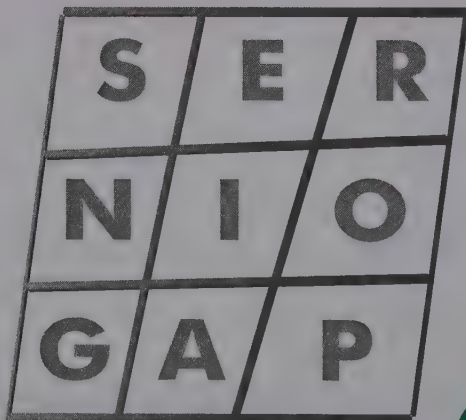
Decide if each statement below is a fact or an opinion.

- | | |
|--|---------------------|
| 1. The spelling quiz had 100 words. | fact/opinion |
| 2. Bob is the best baseball player in the world. | fact/opinion |
| 3. Downhill skiing is easy to learn. | fact/opinion |
| 4. Mary visited Toronto with her family on vacation. | fact/opinion |

squarely speaking

Using each letter only once, find the country by connecting square to touching square. (You may use diagonals.)

Start with the letter S.



Recycling

Recycling and Reusing at School

Use both sides of your paper. Use scrap materials for art projects. Use a thermos instead of drink boxes. Pack lunch using reusable or recyclable wraps and containers. If your school doesn't already have a recycling program, talk to your teacher or principal about starting one. Start a club to get other kids interested in recycling.

Think of ways you can help your environment and get kids involved.



One Lump or Two?

Have you ever made lemonade? Chocolate milk? Maybe you've watched someone put sugar in their tea. What do all these things have in common? Well, for one thing, they are all tasty drinks. They are also all solutions. Something was added to a liquid, stirred, then, seemed to "disappear" into the liquid. This is called dissolving. Water is a good liquid for dissolving things like salt or sugar. You can experiment to see how much sugar a glass of water can hold.

What to do:

- 1) Measure out one cup of water and place it in the clear glass or jar. Mark the water level with a marker or piece of tape.
- 2) Add one tablespoon of sugar.
- 3) Stir until you cannot see any more of the little crystals.
- 4) Repeat. On paper, keep track of each tablespoon you add. Be sure to stir well before adding more.
- 5) At some point, you will not be able to get any more sugar to dissolve. When this happens, you have reached the saturation (sa-chur-ay-shun) point of water. The water is full of sugar. How many tablespoons fit?

What you need:

- 1 cup of water
- 1 tablespoon
- sugar
- a spoon (to stir)
- pencil and paper
- clear glass or jar
- marker or piece of tape
- thick string or yarn

- 6) Now you can take a piece of string and tie it to the middle of a pencil.
- 7) Lay the pencil over the glass so that the string dangles down into the solution. Store in a safe, clean place for a couple of weeks.

What's happening:

As the water evaporates, the sugar will stay behind and stick to the string. You will have your very own rock candy!

Remember to use the Scientific Method!

- 1) *Make your hypothesis.*
- 2) *Record your observations.*
- 3) *Draw your conclusions.*



ENGLISH

- HELLO
- GOODBYE
- PLEASE
- THANK YOU

GREEK

- YASSOU
- ANDIO
- PARAKALO
- EFCHARISTO

- CURRENCY EURO
- POPULATION APPROX 11,000,000

Greece!

Crossword

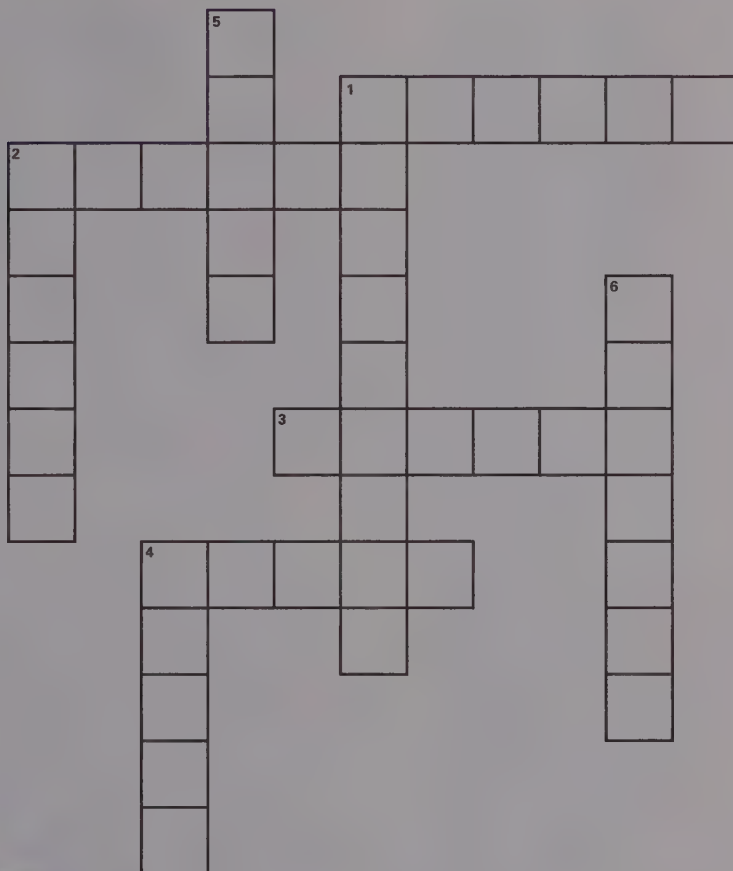
GREECE

Across

1. Mountains located in the west
2. Island west of Samos
3. Sea on the east coast
4. Island south of Lesbos

Down

1. Popular landmark in Athens
2. Sea to the west
4. Island to the south
5. Island off the coast of Albania
6. River south of Mt. Olympus



Facts about Greece

Greece is located in southern Europe. Numerous islands and the Aegean Sea surround it to the east, the Ionian Sea to the west and the Mediterranean Sea to the south. Athens is the capital and the home of the Parthenon.

Multiplication and Division

Complete the equations below.

①

$$\begin{array}{r} 324 \\ \times 6 \\ \hline \end{array}$$

②

$$4 \overline{) 284}$$

③

$$3 \overline{) 336}$$

⑥

$$7 \overline{) 497}$$

④

$$\begin{array}{r} 119 \\ \times 3 \\ \hline \end{array}$$

⑤

$$\begin{array}{r} 511 \\ \times 6 \\ \hline \end{array}$$

⑧

$$9 \overline{) 819}$$

⑦

$$\begin{array}{r} 226 \\ \times 5 \\ \hline \end{array}$$

Arts & Crafts

Adult supervision may be required.



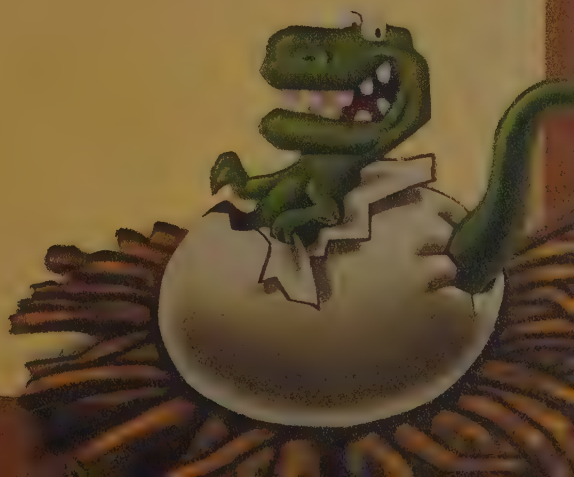
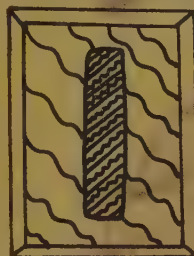
Name Frames

Materials:

- small picture frames (One for each letter in your first name unless your name is very long. Then maybe, you can abbreviate.)
- construction paper
- markers
- scissors

Directions:

1. Cut construction paper into a size that will fit inside the picture frame. Cut enough pieces to equal the number of letters in your first name.
2. On each piece of construction paper, draw one of the letters in your name. Draw the letter in an outline style so that you can fill the letter in and decorate it with markers.
3. Put the decorated letters in the frames.
4. Hang your name on a wall as shown.





Volcanoes:

Shield Volcano, Step 2

Adult supervision is recommended.

Earth isn't the only place to find shield volcanoes. Olympus Mons, a volcano on the planet Mars, is also a shield volcano! It's the largest volcano in the solar system. In fact, it's more than twice as high as Mount Everest, the tallest mountain peak on Earth.

Shield volcanoes often form on *hot spots*, or places where the temperature below the surface is higher than usual. The volcanoes that make up the Hawaiian islands formed because of hot spots.

Materials

non-water-based craft paints in white, brown, black and green

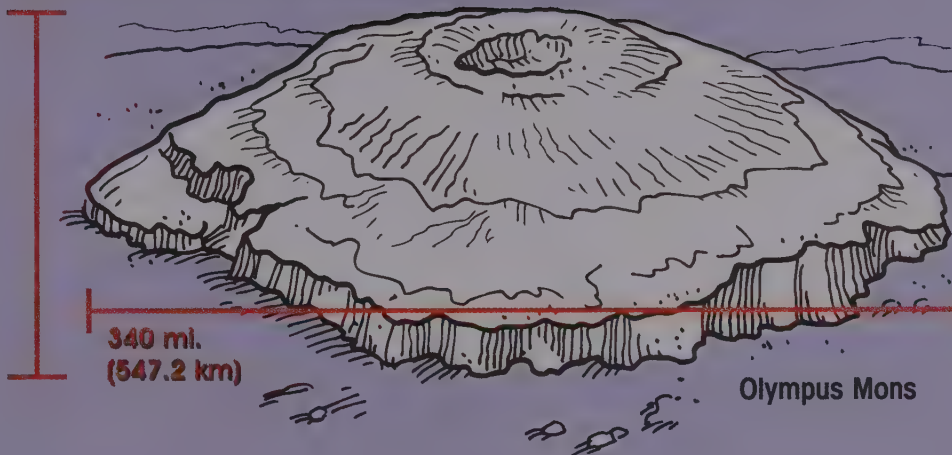
medium-size paintbrushes or disposable foam applicators (one brush for each color, if possible)

paper towels or rags for cleanup

Directions

1. Review your research. Refer to photographs of shield volcanoes such as Mauna Loa as you paint your model.
2. Paint your shield volcano model. You might want to use brown and black paint for most of the volcano. Then you can add green paint to represent the plants that eventually begin to grow on a volcano. You can use white paint to illustrate worn rock.
3. Set the volcano aside for 24 hours to dry thoroughly.

15 mi.
(24.1 km)



Extension

Each volcano is unique. Look through old news magazines or travel magazines for photographs of volcanoes around the world. If possible, cut out the photos or make photocopies of them. Make a collage in the space below, showing the many forms a volcano can take.

Journal

Use a blank sheet of paper if you need more space.

Who is your best friend? What makes this person special to you?



weird science

Have you heard of the speed of light? Well, light is pretty fast; 300,000 kilometers (186,400 miles) per second as a matter of fact!

Story Problem

Solve the story problem below.

It is 4:00 p.m. Your friend called you to go to the movies at 5:30 p.m. You have to finish your homework first. You have 20 math problems left to do and they take you three minutes each to complete.

How long will it take you to finish?

What time will you be done?

¿Riddle Me This?

I am made up of over 1,400 islands. I am the home to the famous philosophers Plato and Aristotle.

What country am I?

Journal

I'm thankful today because...

Math Games

Do you see a pattern? Fill in the blanks with the correct number to complete the pattern.

1.

50

45

40

30

2.

66

60

48

42

3.

82

66

58

50

Wanted: Volunteers

Chapter 10



"Good morning, volunteers," said Ms. Darcy cheerfully. "Yesterday, my son introduced me to his class's new exchange student. I think you'll like him." She opened her office door.

A tall, slender teenager came in. "Peter, these are the volunteers I told you about—Vega, Tripp and Celeste." Peter said hello and shook hands with the children, which made them feel like grown-ups.



"How can I help?" asked Peter. Eyebrows went up. So this was what Ms. Darcy had up her sleeve. Peter was from England!

Tripp thought out loud. "It would be great if you talked about England. It's too bad we don't have any pictures." The girls agreed.

"Actually, I do have pictures—at least at home I do," Peter volunteered. "I backpacked around a bit last summer and took dozens of them. I could share my pictures of Stonehenge

and Buckingham Palace."

"What are those?" asked Vega.

"Stonehenge is a mysterious prehistoric monument that was built over 5,000 years ago. Buckingham Palace is where the royal monarchs live. The queen uses the palace to do business and entertain guests," said Peter. "My pictures are all digital; I could have my mum e-mail them."

Celeste turned to Ms. Darcy. "Could he use a computer to display the photos?"

"I can see to that," said Ms. Darcy with a smile.

Vega, Tripp and Celeste responded in unison, "Add him to the list!"

Later, over lunch, Tripp added Mr. Tanner, Ken Kuo, and Peter to the list of recruits. Vega looked over Tripp's shoulder.

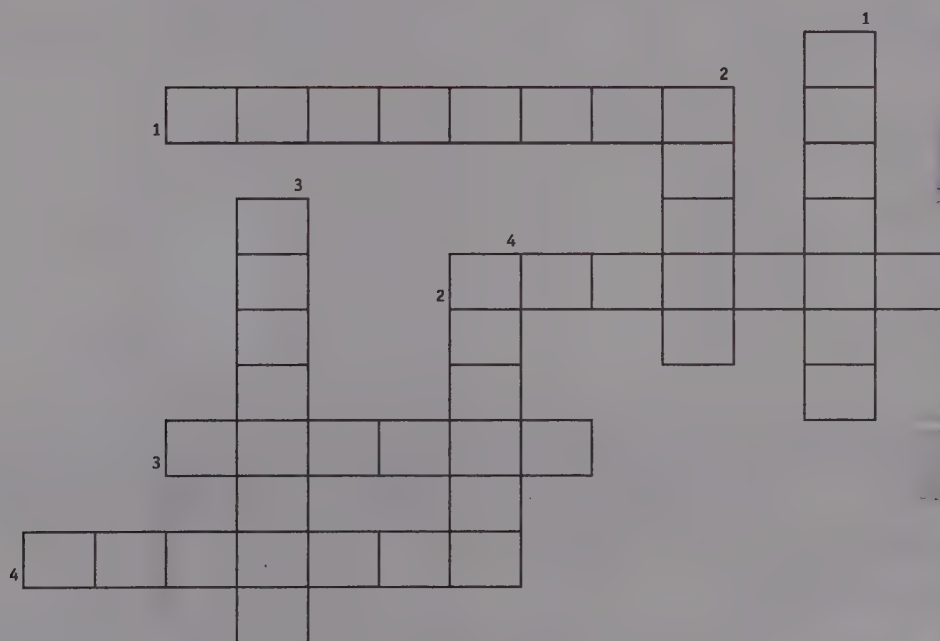
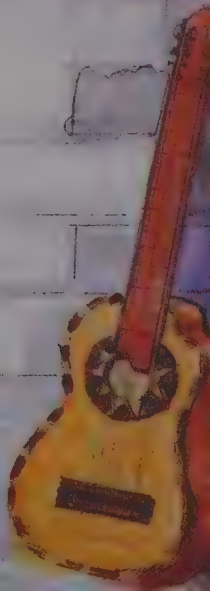
"There's just one more place to go," she said.



Chapter 10

Skill: Reading Comprehension

Use the clues from the story to solve this crossword puzzle.



Across

1. Peter is an _____ student.
2. Peter's kind of pictures.
3. Season when Peter backpacked.
4. What Vega, Celeste and Tripp are.

Down

1. Where Peter is from.
2. How Peter's mum will send photos.
3. Machine for displaying photos.
4. Number of Peter's pictures.



Follow My Lead

Starting with the first word, follow the step-by-step instructions.
The last step should give you the final answer to the question.
The first one has been done for you.

Find a popular produce in

BRAZIL

1. Reverse all letters

LIZARB

2. Add "BAY" to beginning

3. Insert "POP" after "Z"

4. Switch first 3 letters and
last 3 letters

5. Move first letter to end

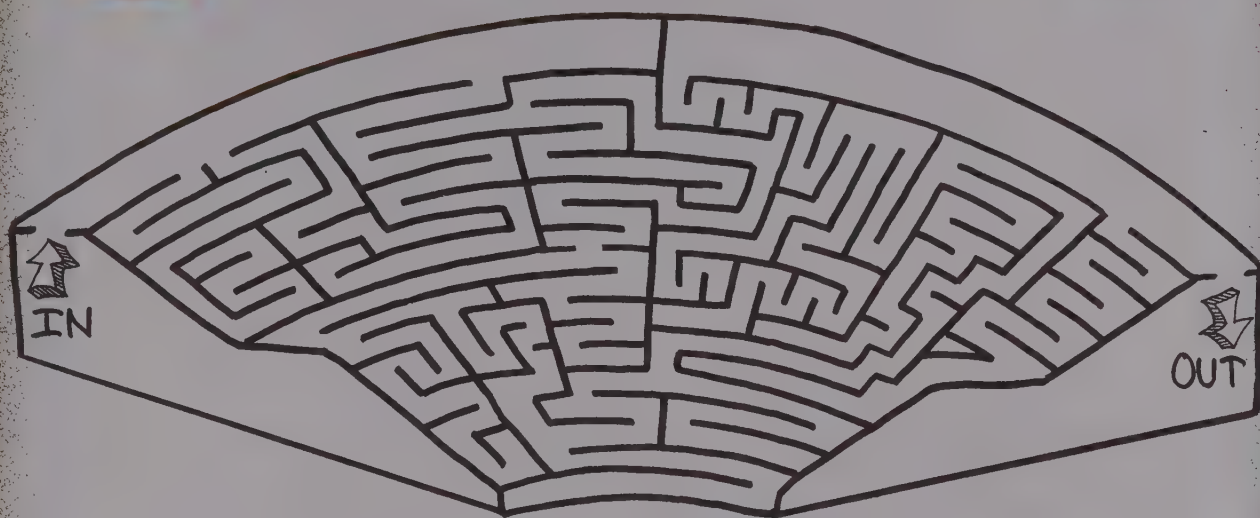
6. Remove all letters that appear
in the word Blizzard

7. Place an "A" after each letter

8. Delete second and third vowels



MAZE



Complete Sentences

Read the sentences below and decide if they are complete (contain subject and verb) or if they are incomplete.

- | | |
|---|---------------------|
| 1. The old wise man. | complete/incomplete |
| 2. The championship horse won the race. | complete/incomplete |
| 3. Running quickly on the playground. | complete/incomplete |
| 4. The report cards were mailed home. | complete/incomplete |

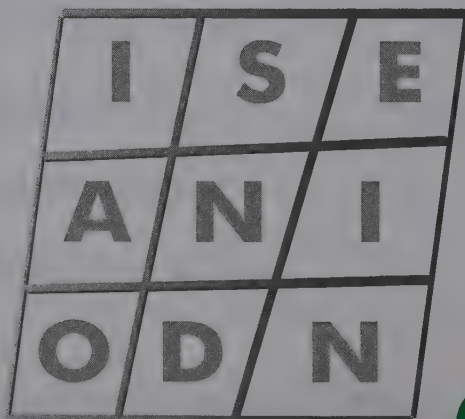


Journal

If you were a superhero who would you be?
What kind of super powers would you have?
What good deeds would you do?

squarely speaking

Using each letter only once, find the country by connecting square to touching square. (You may use diagonals.)
Start with the letter I.



Recycling

Did you know that making cans from recycled aluminum cuts related air pollution (such as acid rain) by 95%? We use 100 million steel and tin cans every day!



Movin' Molecules

A molecule is the smallest particle of an element. You can't see molecules, but you can see how they change the way they move in different temperatures. When something is warm, its molecules vibrate more than when it is cold. You can observe what happens when water molecules are cold, and when they are warm, to see a difference.

What to do:

- 1) Fill a glass with ice cubes and set it in the refrigerator for a few hours until most of the ice has melted.
- 2) Take the glass out and fill the other glass with hot water from the sink so that you have the exact same amount in both glasses.
- 3) The molecules in the warm water are moving faster than in the cold water. To you, the water probably looks the same. You will need to color the water to see the difference. Add two drops of food coloring to one glass. Time how long it takes for all the water in the glass to become colored.
- 4) Repeat with the other glass.
- 5) Compare the results.
- 6) Did you see a difference?

What you need:

- ice cubes
- water
- two glasses
- food coloring
- clock with a second hand, or stopwatch

What's happening:

The glass with faster moving molecules will become colored first because the color will get "mixed up" in the water by the moving molecules.

Variables:

Time how long it takes different temperatures of water to become colored. Use room temperature water, have an adult help you boil water, or try other ways of changing the temperature of the water!

Remember to use the Scientific Method!

- 1) Make your hypothesis.
- 2) Record your observations.
- 3) Draw your conclusions.



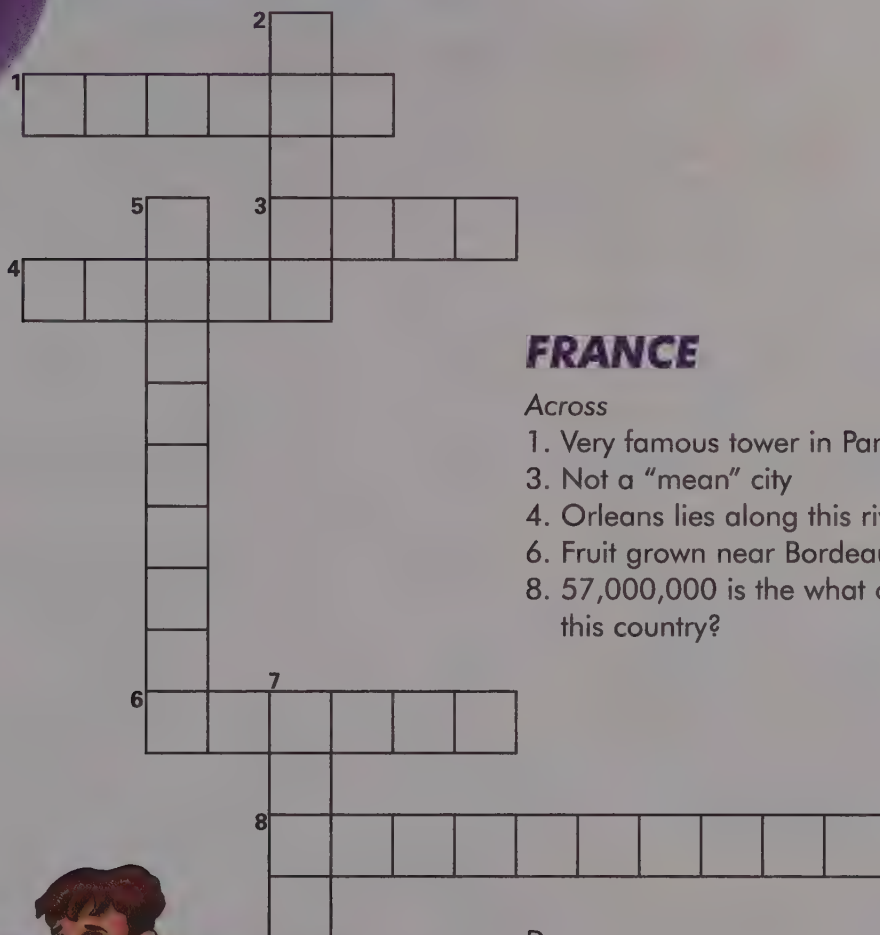
France!



ENGLISH	FRENCH
• HELLO	BONJOUR
• GOODBYE	AU REVOIR
• PLEASE	S'IL VOUS PLAÎT
• THANK YOU	MERCI
• CURRENCY	EURO
• POPULATION	APPROX 60,000,000



Crossword



FRANCE

Across

1. Very famous tower in Paris
3. Not a "mean" city
4. Orleans lies along this river
6. Fruit grown near Bordeaux
8. 57,000,000 is the what of this country?

Down

2. The capital lies along this river
5. Sport shown near the Pyrenees
7. Famous mountains along the southeastern border



Facts about France

France is located in Europe. Paris, the capital, lies along the Seine River. Paris has many famous landmarks including the Eiffel Tower and Arc de Triomphe. France is famous for its wine. Grapes to make wine are grown near Bordeaux.



Follow My Lead

Starting with the first word, follow the step-by-step instructions.
The last step should give you the final answer to the question.
The first one has been done for you.

Find a river in

FRANCE

1. Switch the A and R

FARNCE

2. Replace the F with a G

3. Insert an O after the
second consonant

4. Repeat the third consonant
directly after it

5. Delete the 5th consonant

6. Capitalize the first letter

Arts & Crafts

Adult supervision may be required.

Clothespin Zoo

Materials:

- poster board or thin cardboard
- markers
- scissors
- snap-type clothespins
- pencil



Directions:

1. Draw an animal without legs on the poster board.
2. Color it with markers (on both sides if you like).
3. Cut it out.
4. Clip on clothespins as legs and stand the animal up.
5. Make other animals to complete your zoo.





Volcanoes:

Lava Flows

Adult supervision is recommended.

You learned on page 50 that gases escaping from magma can determine whether volcanic eruptions will be gentle or violent. Another factor in how explosive a volcano will be is the type of lava being erupted. Different lava types have different ways of flowing. A thin, fluid lava flows easily and quickly, but a thick lava is much slower.

Fluid lava travels away from the volcano's vent. In time, it helps build the gentle slopes of shield volcanoes. Thicker lava stops close to the vent and gets covered with volcanic material. In time, it forms the steep slopes of stratovolcanoes. In this experiment, you will see how two types of "lava" form different lava flows.

Materials

2 foam or plastic plates

2 foam or plastic cups

2 plastic straws

$\frac{3}{4}$ c. (177.4 ml) water, milk or juice

$\frac{3}{4}$ c. (177.4 ml) honey, vegetable oil, or corn syrup

old newspapers

Directions

1. Cover a flat surface, such as a table, with old newspapers. Set the two plates on the surface.
2. Place one cup on each plate. Fill one cup with water, milk or juice and the other with honey, vegetable oil, or corn syrup.
3. Place a straw in the cup with the water, milk, or juice. Gently begin to make a volcanic eruption by blowing into the straw and bubbling up the "lava." Do this until the liquid bubbles over the sides of the cup.

4. Repeat step 3, using a new straw and the cup of honey, vegetable oil, or corn syrup.
5. What is the difference between the first cup of "lava" and the second? Why did the two liquids flow differently?



Extension

Depending on how quickly lava cools, different types of crystals form. Many times these crystals develop into *pumice* or *obsidian*. Find information at the library about these two rock forms. Then fill out the chart below.

Rock Form	Characteristics
Pumice	
Obsidian	

Journal

Use a blank sheet of paper if you need more space.

Sometimes parents and kids have disagreements. How do you feel when you and your parents don't get along?



weird science

A fellow named Galileo was the first to discover the moons of Jupiter. He did it with a telescope that was about as strong as a pair of ordinary binoculars!

Math Quiz

1. Which number is the same as $\frac{97}{100}$?

- a. .0097
- b. .97
- c. 97
- d. 9.7

2. What should $n =$ in the math problem below?

$$n + 22 = 196$$

- a. 174
- b. 176
- c. 178

3. Take the number 15,229 and increase the value of the digit in the thousands place by 4. What is the new number?

- a. 15,729
- b. 55,229
- c. 19,229

Riddle Me This?

Journal

One of my monuments is the Eiffel Tower. My countryside is known for growing the grapes that produce some of the world's best wine.

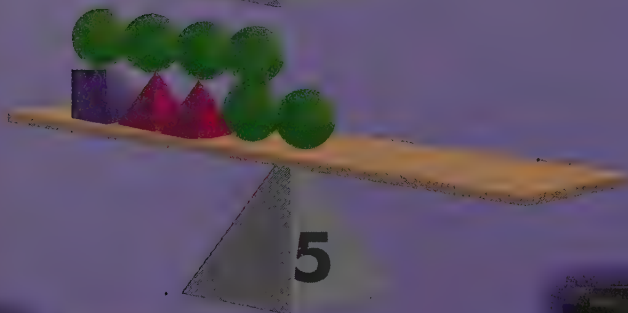
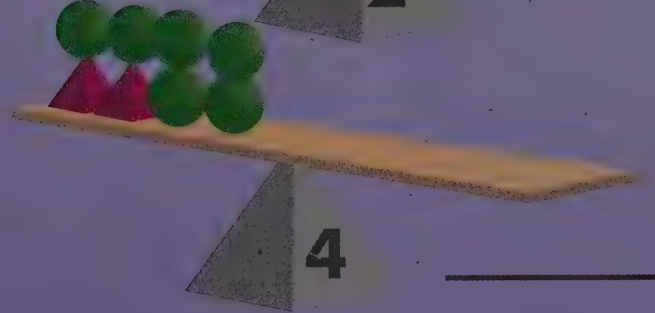
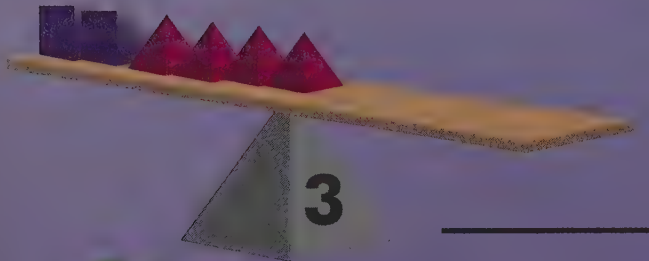
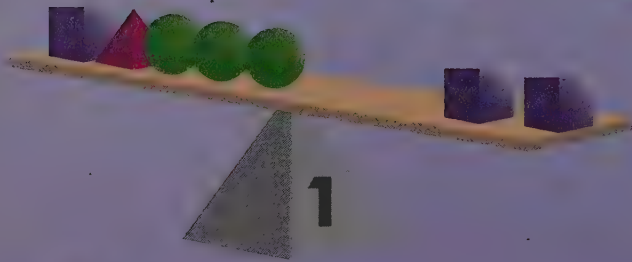
What country am I?

I'm thankful today because...

Math Games

Each shape has a value. Scales 1 and 2 are in perfect balance.
How many squares are needed to balance scales 3, 4 and 5?

 = 12  = 9  = 1



Wanted: Volunteers

Chapter 11



The group's final stop was the local library. Quietly, they looked for Mr. Mwanja, their favorite librarian.

At the side door, the children could see Mr. Mwanja on his break. He was sitting on a bench in the sunshine, and his back was to them. The children walked outside. Tripp was about to speak when Vega waved at him to be quiet. He looked where she was pointing.



There was an odd pile of curled wood shavings at Mr. Mwanja's feet. Mr. Mwanja was carving a piece of wood between his knees. Only when Vega cleared her throat did he look up.

"What a wonderful surprise. What can I do for three of my favorite readers?" Mr. Mwanja was used to the children's visits to the library.

Vega was so interested in his carving that she forgot to be polite. "What are you working on?" she asked.

"Today—a giraffe."

Mr. Mwanja held up his work. Half of it looked like a giraffe. The other half was still rough and uncarved.

"Where did you learn to do that?" asked Tripp.

"I have been carving for a long time. Carving is a tradition in my land. Even long ago they made statues of the animals and people in Africa, to show respect and to honor them." Mr. Mwanja looked at the form in his hands.

"Would you give a demonstration at the Community Center?" asked Celeste.

"To teach people how to make little piles of curly wood shavings? Who would want to learn that?"

Tripp jumped in. "Your carving is really great, Mr. Mwanja. Won't you consider it? Please?"

Mr. Mwanja looked doubtful, but after he thought about it, he agreed.



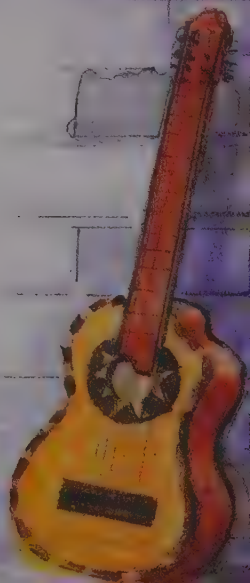
Chapter 11

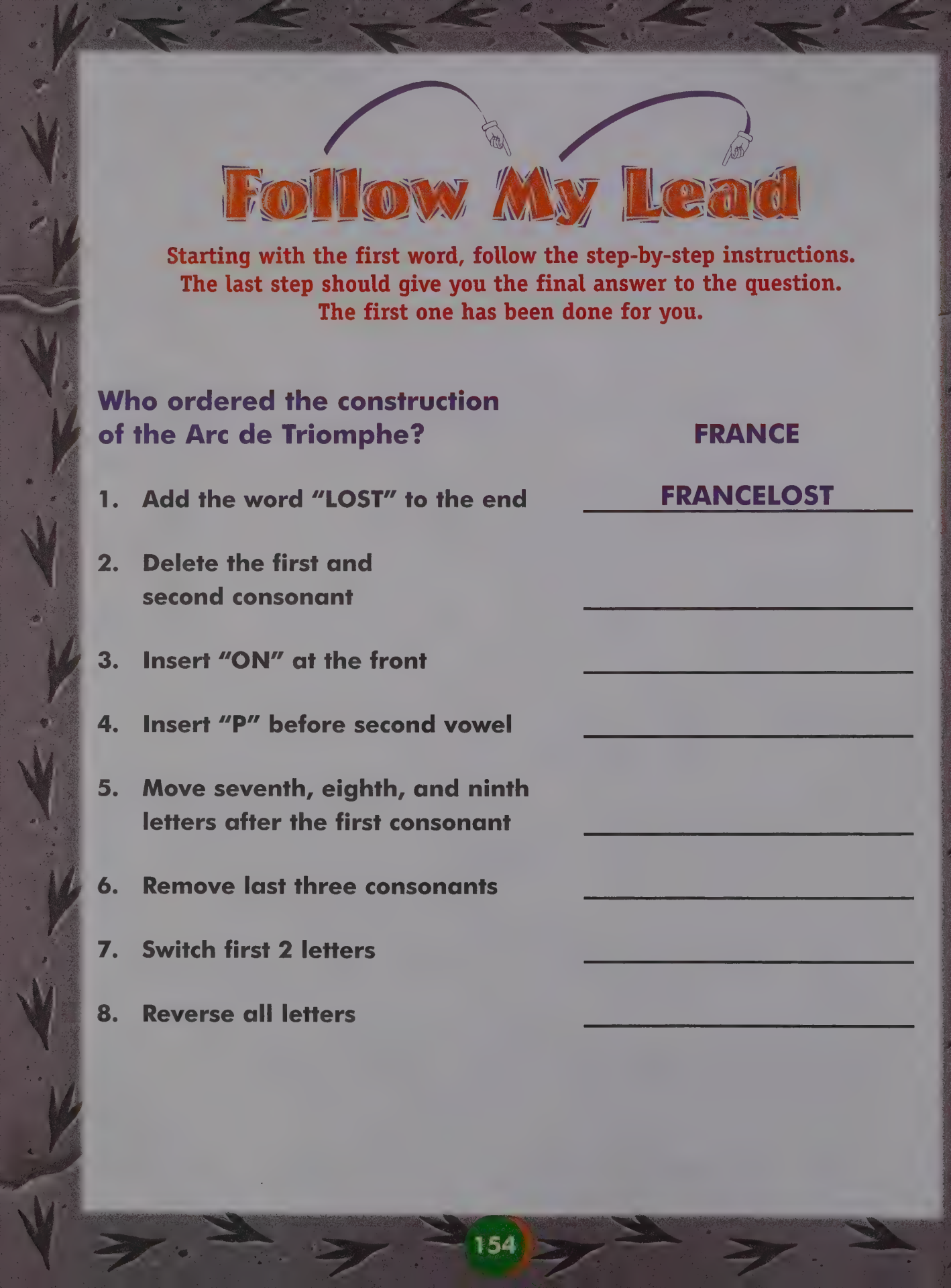
Skill: Sequence of Events

Number these events in the order in which they occurred in Chapter 11. Label the items 1 (first) through 8 (last).



- _____ Vega asks Mr. Mwanja what he's doing.
- _____ Mr. Mwanja tells about carving in Africa.
- _____ Vega clears her throat.
- _____ Mr. Mwanja greets the children.
- _____ Mr. Mwanja shows his giraffe.
- _____ The children search for Mr. Mwanja.
- _____ The children see Mr. Mwanja sitting on a bench.
- _____ Celeste asks Mr. Mwanja to do a demonstration.





Follow My Lead

Starting with the first word, follow the step-by-step instructions.
The last step should give you the final answer to the question.
The first one has been done for you.

**Who ordered the construction
of the Arc de Triomphe?**

FRANCE

1. Add the word "LOST" to the end

FRANCELOST

2. Delete the first and
second consonant

3. Insert "ON" at the front

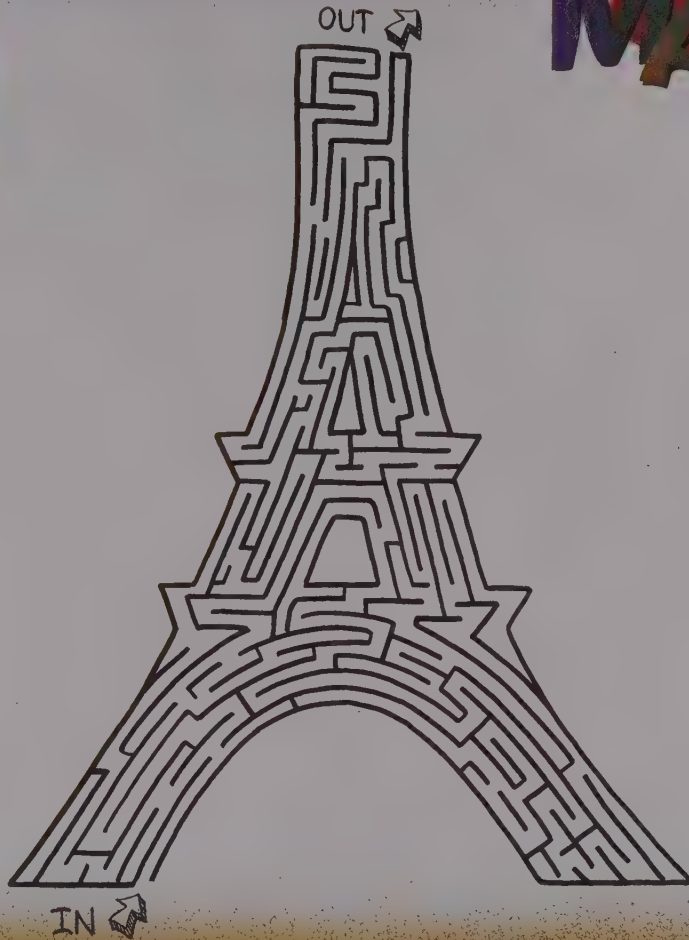
4. Insert "P" before second vowel

5. Move seventh, eighth, and ninth
letters after the first consonant

6. Remove last three consonants

7. Switch first 2 letters

8. Reverse all letters



Prefixes

Prefixes appear at the beginning of words and they change their meaning.

Prefix	Means
un	not
mis	wrong
re	again
pre	before

Use the correct prefix to write the word that matches each definition below.

1. write it again

2. said wrong thing

3. do again

4. pay in advance



Abbreviations

Abbreviations are shortened versions of written words.

Write the correct abbreviations for the words below:

Example: **Mister** → **Mr.**

1. Doctor

2. Road

3. Street

4. United States of America

squarely speaking

Unscramble the letters to find the country.

I	W	B	E
B	Z	M	A

Recycling

How many paper products that you see are made from recycled paper? Chances are your newspaper, napkins and grocery bags are all made from recycled paper. Take a look at the outside package of different paper products the next time you're in a supermarket, hardware store, or fast food restaurant.

How many of their products are recycled paper products?



Science Project

Adult supervision may be required.

A Boiling Hot Race

Steven was hungry! He decided to make some macaroni and cheese for lunch. He put some water on the stove to boil. "It sure seems to take a long time to boil," thought Steven. "I wonder if there is a way to make it boil faster?"

What do you think? Some people add salt to their water to make it boil faster. But does it really work? Try this water boiling experiment to see for yourself.

What to do:

- 1) Fill each saucepan with 2 cups of water.
- 2) Add 2 teaspoons of salt to one saucepan.
- 3) Set the saucepans on the burners. Be sure to have an adult help you!
- 4) Let the race begin! Turn on each burner on high at the same time.
- 5) Observe which pot boils first.

What's happening:

The salt makes the water boil faster because when you add salt to water, you change the boiling point of water, or the temperature at which water will boil.

What you need:

- two equal size saucepans
- water
- salt
- measuring cups and spoons
- two equal size stove burners
- an adult to help you use the stove

Variables:

Will the water still boil faster if you use less salt? More salt?

What about comparing different amounts of water?

Could other things change the boiling point of water?

Remember to use the Scientific Method!

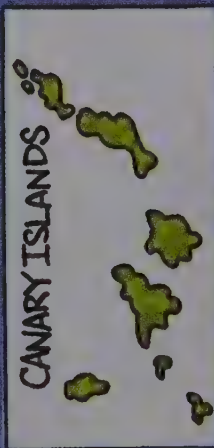
- 1) Make your hypothesis.
- 2) Record your observations.
- 3) Draw your conclusions.



Spain!



ENGLISH	SPANISH
•HELLO	HOLA
•GOODBYE	ADIÓS
•PLEASE	POR FAVOR
•THANK YOU	GRACIAS
•CURRENCY	EURO
•POPULATION	OVER 41,000,000



CANARY ISLANDS

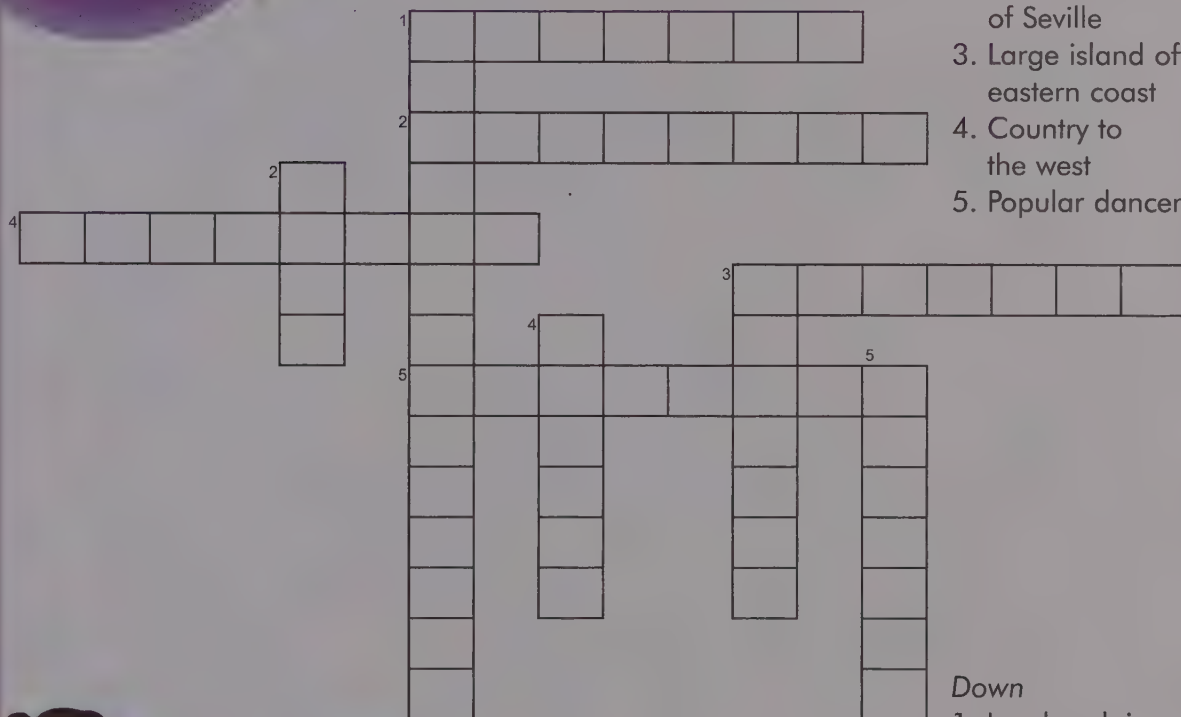


Crossword

SPAIN

Across

1. Castle located in the capital
2. River north of Seville
3. Large island off eastern coast
4. Country to the west
5. Popular dancers



Down

1. Landmark in Barcelona
2. Currency
3. Small island off eastern coast
4. Islands owned by Spain
5. Fruit found in Valencia



Facts about Spain

Spain is located in southwest Europe. Madrid is the capital where you can find Segovia Castle. Another famous landmark is Sagrada Familia in Barcelona. Spain is famous for its bullfighting and flamenco dancing.

Story Problems

Use addition, subtraction, multiplication or division to solve the story problems below:

1. Your teacher gave you a project to complete in 124 days. You decided to divide the project into 4 equal steps. How many days will it take to complete each step?

2. Your family is bringing hot dogs to the family reunion. There will be 112 people there and you are planning on bringing 2 hot dogs for each person. How many total hot dogs should you bring?

3. You are planning on buying a birthday present for your grandmother. You have \$27.50 to spend and the gift you have selected costs \$26.17. How much change will you receive?

Arts & Crafts



Adult supervision may be required.

Bike Course Barrels

Materials:

- empty potato chip cans (6)
- rice, sand or pebbles
- construction paper
- tape
- markers



Directions:

1. Cover empty potato chip cans with construction paper.
2. Decorate them with markers.
3. Fill them with rice, sand, or pebbles so that they have weight.
4. Now set the cans out in a line on a driveway, sidewalk or a safe area. Set the cans about six feet apart.
5. Be sure to wear your bike helmet. Ride your bike carefully around and between the barrels in an s-shape, trying not to knock them over.
6. When you get good at this, try putting less space between each barrel.





Volcanoes:

Volcanic Eruption!

Adult supervision is recommended.

Materials

one of your
volcano models
plastic or paper cup,
empty film cylinder
1 T. (14.8 ml) baking soda
2 T. (29.6 ml) vinegar

Volcanoes have fascinated human beings for ages. They are one of the most powerful forces in nature. You have built three models to represent the three different types of volcanoes, and you have learned what makes each type of volcano different from the others. Now you have the opportunity to use one of your volcano models to make your very own volcanic eruption.

Directions

1. Gather your supplies, and either take them outside or set them in a large sink inside your house.
2. Place the cup or cylinder in the volcano's vent.
3. Spoon the baking soda into the container.
4. Pour the vinegar into the baking soda.
Watch your volcano erupt!

Congratulations! You have learned many important facts about volcanoes, including how they form and what comes out of them. You also have built a model of each type of volcano, and you have made your very own volcanic eruption. As you begin fourth grade, you will have many interesting facts about volcanoes to share with your classmates.

Extension

The eruption of Mount Vesuvius and its destruction of Pompeii is a well-known historical disaster. Read about this event, and imagine what it might have been like to see Mount Vesuvius erupt. Then write a story about someone your age who lived at that time and survived the disaster. Describe your main character on the lines below.



Journal

Use a blank sheet of paper if you need more space.

Summer is good for free time. When I have some free time I like to...



weird science

A recycling fact. For every 2,000 pounds of recycled paper, about 16 trees are saved.

Rounding

Round the following numbers to the nearest thousand. If the number has five hundreds or more, round it up to the next highest thousand. If it has four hundreds or less, round it down to the nearest thousand.

Examples: $1,127 \rightarrow 1,000$ $4,812 \rightarrow 5,000$

1. $9,912 \rightarrow$ _____ 5. $4,416 \rightarrow$ _____

2. $8,377 \rightarrow$ _____ 6. $2,288 \rightarrow$ _____

3. $7,716 \rightarrow$ _____ 7. $5,972 \rightarrow$ _____

4. $9,499 \rightarrow$ _____ 8. $3,500 \rightarrow$ _____

Riddle Me This?

Journal

My name rhymes with the word for the organ in your body that thinks. I am famous for my bullfights and flamenco dancing.

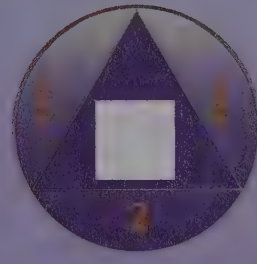
Who am I?

I'm thankful today because...

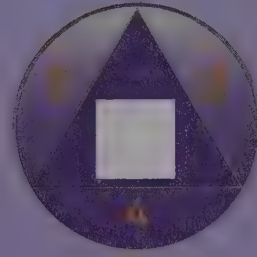
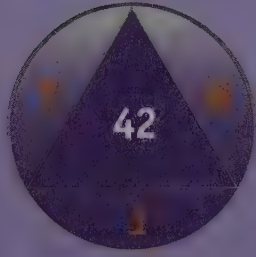
Math Games

Do you see a pattern? Fill in the blanks with the correct number to complete the pattern.

1.



2.



3.



Wanted: Volunteers

Chapter 12



Tonight was the night. Vega and Celeste couldn't believe how many people came to the Community Center. Many wore traditional costumes to show off their family's history. The hum of voices talking and laughing charged the room with an energy that had long been missing from the Center.

The girls viewed the mural Celeste had painted for the occasion. They were surprised that Tripp was late.

"Tripp will just have to catch up," said Celeste. "Orientation is about to start."



Ms. Darcy began by introducing the new volunteers. When she got to Mrs. Radanovich, she announced that someone very special would be introducing her. Celeste and Vega were surprised to see Tripp walking to the microphone in a suit and tie. Slowly, he began.

"Mrs. Radanovich is from Russia. She will be sharing with you a special collection of dolls. But her collection is incomplete. Mrs. Radanovich, I have someone here who can help."

A very old woman made her way to the center stage. In her hand she carried a doll no bigger than a thimble.

The girls immediately guessed that Tripp's surprise was to bring Mrs. Radanovich's sister to Springville. They later discovered that Tripp's uncle, a pilot, had made the flight arrangements for Mrs. Radanovich's sister. The day Tripp had to go home from Vega's house was the day the sister had arrived.

Later, Ms. Darcy motioned the children toward the front door. "This will just take a minute. Do you think this is the best place?" She held a bulletin board against the wall.

Vega, Tripp and Celeste stared. A banner across the bulletin board read "Volunteer of the Month." Their pictures were on the front with the caption "A Three-Way Tie."

Ms. Darcy hugged the children. "I am so proud of you. You have used your time to help your community. And you put some life back in the Center."

"Thanks, Ms. Darcy," chimed Vega, Tripp and Celeste.

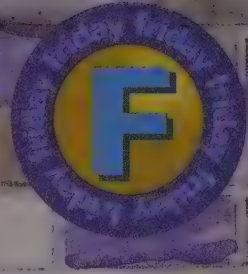
The music started, and the three volunteers made their way to the gym. Was it just their imagination, or was everyone glowing with pride tonight?



Chapter 12

Skill: Reading Comprehension

**Answer the questions below
on the lines provided.**



1. Where does the action in Chapter 12 take place?

2. What special contribution did Celeste make to the Center?

3. What is special about Mrs. Radanovich's introduction?

4. Who is the surprise visitor?

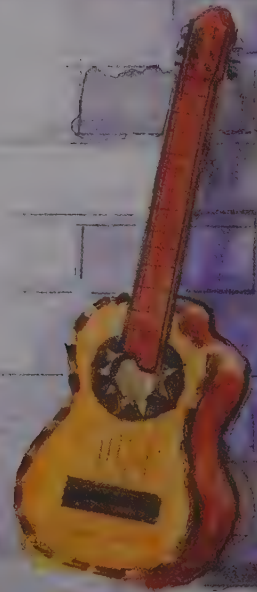
5. How did the surprise visitor get to Springville?

6. What does Ms. Darcy need help with?

7. What does the top banner on the bulletin board say?

8. Whose pictures are on the bulletin board?

9. Why is Ms. Darcy proud of the three children?





CRAZY CAPERS

Who broke the eggs?

Jordan had been keeping an eye on the bird's nest outside of his bedroom window hoping to see the babies hatch. Unfortunately, when he awoke this morning he noticed that the nest had been disturbed. Two of the eggs had crashed to the ground and broken. Based on the clues below, can you help Jordan figure out who, or what, climbed the tree and disturbed the nest?

Was it...

- A mouse
- Jamison, Jordan's bratty brother
- A snake
- A rat
- A cat
- An eagle
- Jamison's pet iguana
- A squirrel
- The phone repair person

CLUES!!!

1. It is not a reptile.
2. It has claws.
3. It is a mammal.
4. It is not a rodent.



MAZE



Suffixes

Suffixes appear at the end of words and they change their meaning.

Suffix

ful
less
ness
able

Means

full of
without or lacking
state of
able to be

Use the correct suffix to write the word that matches each definition below.

1. state of being happy

2. taking great care

3. lacking power

4. able to understand



Journal

In the fall, I will be in 4th grade. I am looking forward to it because...

squarely speaking

Unscramble the letters to find the country.

T	T	S	E
A	U	T	E
N	D	I	S

*Recycling

Everyone in your house should try to avoid buying things that use too much packaging. It adds up to more trash and probably more non-biodegradable materials.



Science Project

Adult supervision may be required.

Mix It Up

"Kelly, get the dressing out of the refrigerator and set it on the table, please," asked Kelly's mother. She went to the refrigerator door and pulled out the Italian dressing. Something looked strange about it. "I think it went bad, mom," said Kelly. "Look. It's fine! You just need to shake it up," said her mother.

What was wrong with the salad dressing? Maybe you've noticed it before, too. When some salad dressings sit for a long time, the liquids in them separate. You can observe this separation more closely in this experiment.

What to do:

- 1) Fill the bottle part way with vegetable oil.
- 2) Slowly and carefully add some water.
- 3) Put the cap on tightly.
- 4) What do you notice?
- 5) Try mixing the two up. What happens?
- 6) Now try shaking the bottle really hard. Can you ever get them to mix all the way?

What you need:

- empty plastic bottle with cap
- vegetable oil
- water
- food coloring

What's happening:

Why can't you get the two to mix? It has to do with the density of the two liquids.

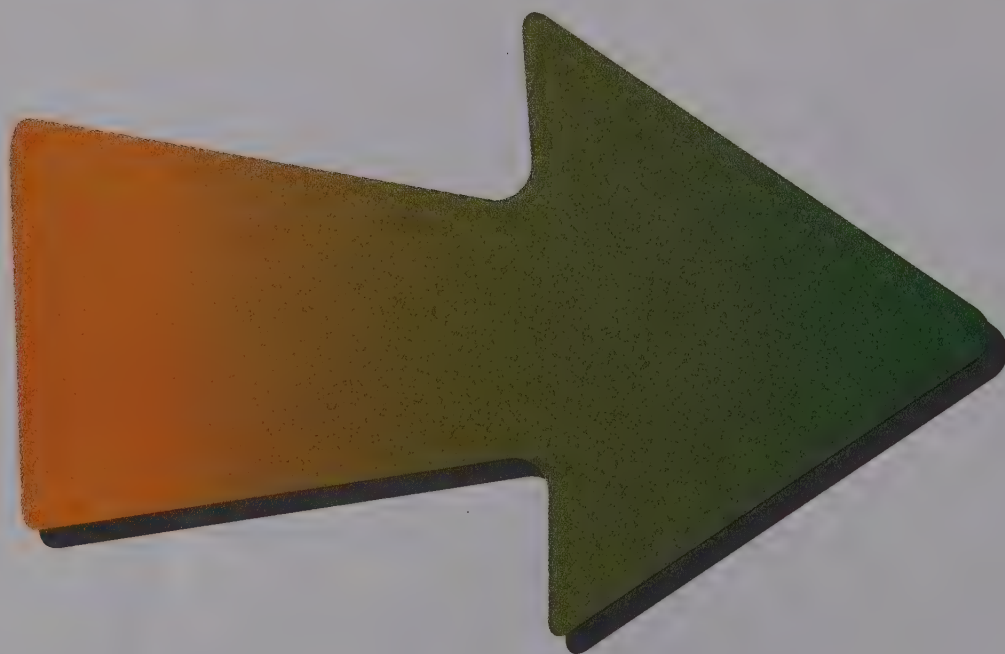
- If you have the same amount of oil and water, the oil will be heavier or more dense.
- The water will be lighter, or less dense, than the oil.
- The heavier liquid oil sinks below as the water floats on top.
- No matter how hard you try, you will never get them to mix completely.
- Observe the little globules of oil within the water as you shake it. They won't mix with the water.
- Try adding some food coloring to the bottle. Where do you think it will go? Will it mix with the water or oil? Will it stay all by itself? Experiment!

Remember to use the Scientific Method!

- 1) Make your hypothesis.
- 2) Record your observations.
- 3) Draw your conclusions.



Answers

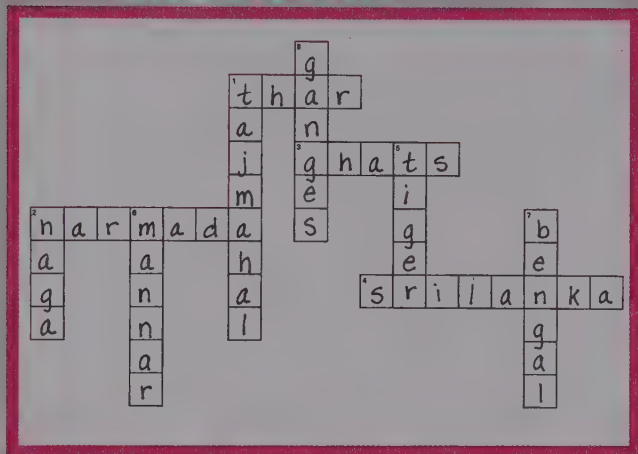


WEEK ONE

MONDAY

PAGE 5

CROSSWORD



TUESDAY

PAGE 6

ADDITION & SUBTRACTION

- $77 - 68 = 9$
- $39 + 39 = 78$
- $84 - 27 = 57$
- $99 + 12 = 111$
- $63 - 59 = 4$
- $23 + 67 = 90$
- $52 - 18 = 34$
- $45 + 56 = 101$
- $100 - 46 = 54$

WEDNESDAY

PAGE 9

RESEARCH EXTENSION

Answers will vary. Possible answers include:

Types of Volcanoes	Similarities	Differences
Composite/Stratovolcano	cone shape similar to cinder	can grow very large because layers of lava and volcanic rock build over time
Cinder Cone	cone shape similar to stratovolcano	smaller size than other types because of shorter life and smaller explosions; lava flows don't travel far
Shield	can have a long life like stratovolcanoes, or a short life, like many cinder cones	has a gentler slope than the other types do; lava flows can spread over great distances

THURSDAY

PAGE 10

PAGE 11

MATCHING EQUATIONS

RIDDLE ME THIS

India

- C
- B
- A
- D

MATH GAMES

Numbers are added to each circled number in a sequence.

- 16 The sequence is 3, 4, 5, 6
- 35 The sequence is 11, 12, 13, 14
- 19 The sequence is 3, 4, 5, 6

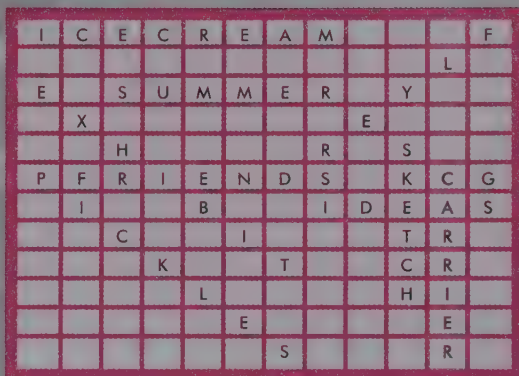
WEEK ONE

FRIDAY

PAGE 13

WORD SEARCH

flyer
ice cream
sketch
carrier
friends
ideas
exhibit
tag
summer
pickles



CHALLENGE

(Possible answers)

1. sneaker, sandal, flip-flop, slipper
2. maple, pine, oak, birch
3. lane, track, highway, Pearl Street, 4th Avenue

SATURDAY

PAGE 14

PAGE 15

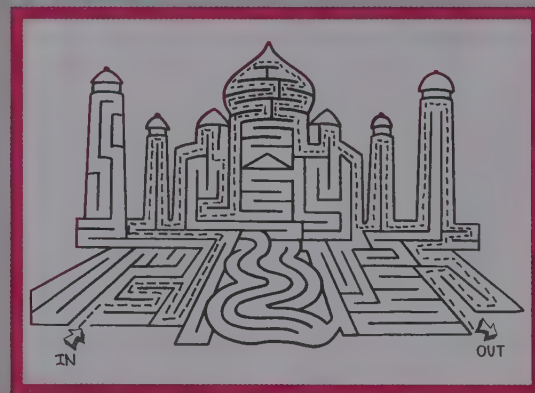
FIX THE FACTS

1. E
2. D
3. F
4. B
5. A
6. C

NAME THE SENTENCE TYPE

1. Question
2. Statement
3. Command
4. Statement
5. Question
6. Command

MAZE



SUNDAY

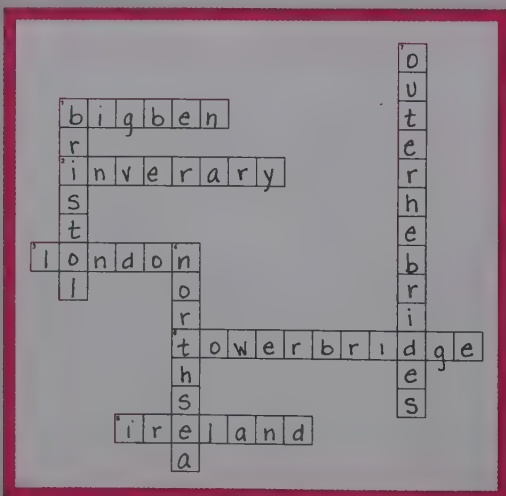
PAGE 16

SQUARELY SPEAKING

Venezuela

COMPLETE THE ANALOGIES

1. cake
2. playground
3. hand
4. radio



WEEK TWO

MONDAY

PAGE 17

CROSSWORD

WEEK TWO

TUESDAY

PAGE 20

ADDITION PUZZLE

- | | |
|--------|----------|
| 1. 597 | 4. 201 |
| 2. 885 | 5. 1,410 |
| 3. 313 | 6. 545 |

COMPOSITE VOLCANO, STEP 1 EXTENSION

Icelandic
Hawaiian
Strombolian
Vulcanian
Peleeen
Plinian

THURSDAY

PAGE 24 PAGE 26

PLACE VALUE

- | | |
|-----------|-----------|
| 1. 682405 | 3. 70511 |
| 2. 996827 | 4. 300014 |

RIDDLE ME THIS

Ireland

MATH GAMES

3. 9 triangles
4. 4 triangles
5. 3 triangles

DEFINITIONS

- | | |
|------|------|
| 1. B | 5. D |
| 2. C | 6. C |
| 3. B | 7. A |
| 4. A | |

FRIDAY

PAGE 27

MAZE



SATURDAY

PAGE 28 PAGE 29

FOLLOW MY LEAD

- | | |
|------------------|-------------------|
| 1. Medicinesbig | 7. Reatritinabig |
| 2. Medirinesbig | 8. Reatbritinaig |
| 3. Ratirinesbig | 9. Reatbritinag |
| 4. Ratirineabig | 10. Reatbritaing |
| 5. Ratiritneabig | 11. Great Britain |
| 6. Reatiritnabig | |

COMPOUND WORDS

bedtime horsefly
sunlight nightlight
horseback

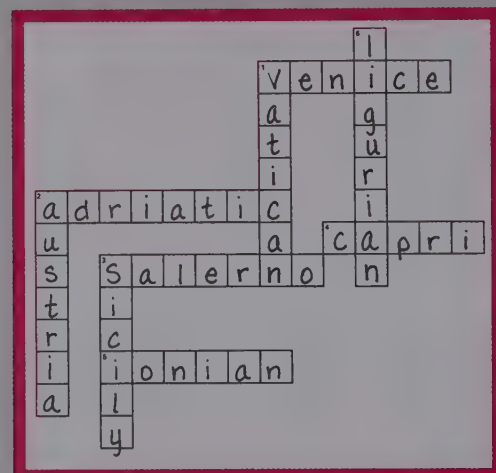
3. 44

WEEK FOUR

MONDAY

PAGE 47

CROSSWORD



TUESDAY

PAGE 48

MATCHING EQUATIONS

- | | |
|------|------|
| 1. F | 5. B |
| 2. E | 6. H |
| 3. A | 7. D |
| 4. G | 8. C |

UNDER PRESSURE

- It reacts with the liquid and fizzes.
- The raisins are releasing bubbles.
- Answers will vary, but students should note that when the vinegar is added, the mixture fizzes or "explodes" like a volcano, and the bubbles (or gases) rush out. After the mixture fizzes, the raisins bubble and eventually stop, just like gases do after a volcanic explosion.

WEDNESDAY

PAGE 50

PAGE 51

UNDER PRESSURE EXTENSION

Volcano

	Height in Feet	Height in Meters
El Misti, Peru	19,101 ft.	5,822 m
Erebus, Ross Island, Antarctica	12,450 ft.	3,795 m
Llullaillaco, Chile/Argentina	22,057 ft.	6,723 m
Mount Cameroon, Cameroon	13,435 ft.	4,095 m
Kliuchevskoi, Russia	15,863 ft.	4,835 m
Pico de Orizaba, Mexico	18,555 ft.	5,656 m
Etna, Sicily, Italy	11,053 ft.	3,369 m
Cotopaxi, Ecuador	19,347 ft.	5,897 m

THURSDAY

PAGE 52

PAGE 53

COMPARING NUMBERS

- | | |
|------|------|
| 1. < | 4. < |
| 2. < | 5. > |
| 3. > | 6. > |

RIDDLE ME THIS

Italy

SEQUENCE OF EVENTS

2, 7, 6, 1, 8, 4, 3, 5

MATH GAMES

Numbers are subtracted from each circled number in sequence.

- 6 - The sequence is subtract 5, 4, 3, 2
- 18 - The sequence is subtract 6, 5, 4, 3
- 10 - The sequence is subtract 9, 8, 7, 6

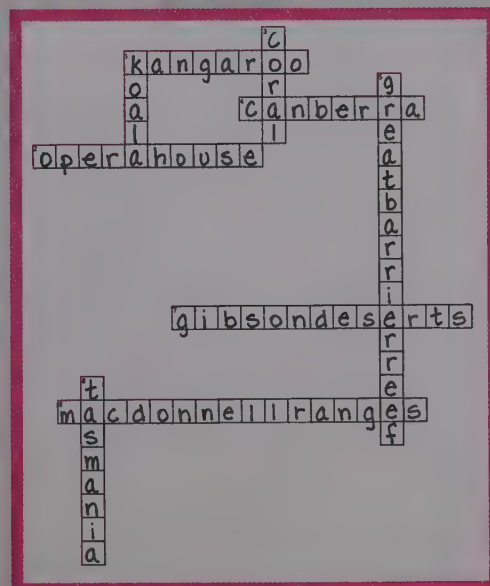
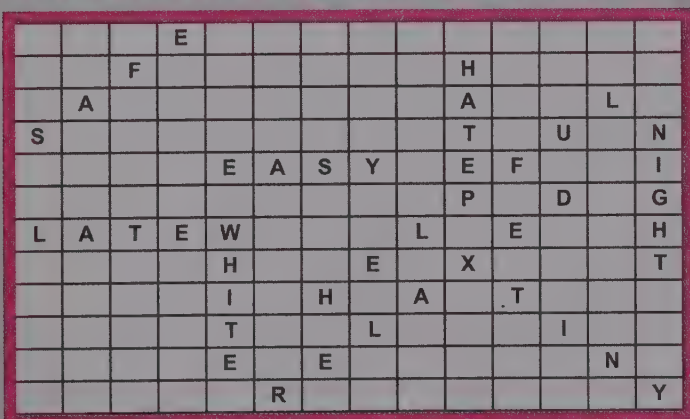
FRIDAY

PAGE 55

PAGE 3

MAZE

1. boxes 5. teeth
2. mice 6. beaches
3. flowers 7. countries
4. leaves 8. dishes



WEEK FIVE

MONDAY

1. 1

5. $\frac{4}{6}$ OR $\frac{2}{3}$ 2. $\frac{2}{8}$ OR $\frac{1}{4}$ 6. $\frac{1}{4}$ 3. $1\frac{2}{10}$ OR $1\frac{1}{5}$ 7. $1\frac{3}{9}$ OR $1\frac{1}{3}$ 4. $1\frac{4}{7}$

8. 1

WEEK FIVE**TUESDAY****FRACTION EQUATIONS****MATH GAMES**

3. 3 Circles

4. 2 Circles

5. 3 Circles

PAGE 66

ROUNDING

1. 80 3. 20 5. 60 7. 90

2. 10 4. 70 6. 50 8. 50

PAGE 67

RIDDLE ME THIS

Australia

CAUSE AND EFFECT

Dmitri's mother and grandmother taught him to cook. — Dmitri is a good cook.

The smells from the café kitchen were good. — Tripp's mouth watered.

Baklava has lots of honey in it. — Celeste has to lick her fingers.

Dmitri says that his mother is an expert cook. — Dmitri volunteers his mother to lead a cooking class.

The children ate their lunches. — The children's food "disappeared."

Dmitri has to run his café. — Dmitri cannot volunteer at the Center.

FRIDAY

PAGE 68

SATURDAY

PAGE 70

PAGE 71

MAZE**FIX THE FACTS**

1. A

4. E

2. C

5. B

3. D

6. F

POSSESSIVE NOUNS

1. sailors'

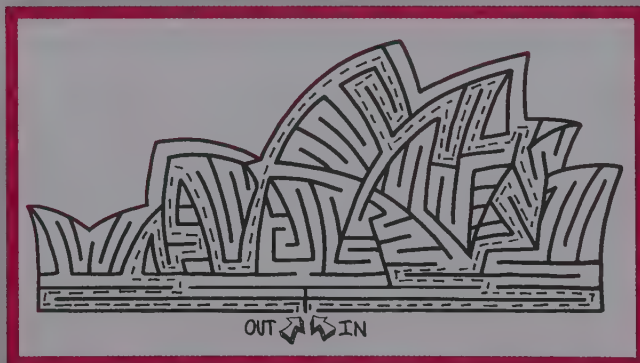
2. waiter's

3. teacher's

4. kids'

5. lifeguards'

6. actors'

**PAST TENSE VERBS**

1. stopped

4. sang, sung

2. blew

5. cooked

3. told

6. watched

SUNDAY

PAGE 72

SQUARELY SPEAKING

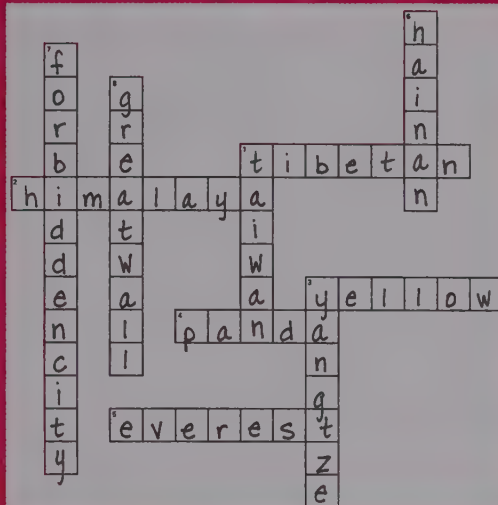
Greenland

WEEK SIX

MONDAY

PAGE 75

CROSSWORD



TUESDAY

PAGE 76

MULTIPLICATION & DIVISION

1. 72
2. 9
3. 36
4. 6
5. 100
6. 8
7. 9
8. 45

THURSDAY

PAGE 80

PAGE 81

STORY PROBLEM

\$5,600.00

RIDDLE ME THIS

China

MATH GAMES

The left and right numbers are added and then multiplied by the bottom number.

1. 12; 2. 49; 3. 0

FRIDAY

PAGE 82

VERB MAZE

know	tell	come					
		wait	nod				
			follow	lead	return	am	
						say	
see	smile	give		share	make	add	
live		help	learn	have			
wave					greet	stop	talk
visit	put	breathe	show	enter	explain		run

WEEK SEVEN

PAGE 90

ADDITION AND SUBTRACTION WITH DECIMALS

- | | |
|----------|----------|
| 1. 1.738 | 5. .412 |
| 2. .412 | 6. 1.120 |
| 3. .001 | 7. .962 |
| 4. 1.419 | 8. .231 |

WEDNESDAY

PAGE 93

SHIFTING PLATES

4. Students should note, in general, that an earthquake occurred; the surface was disturbed, the sand piled up into small hills, and so on.

THURSDAY

PAGE 94

PAGE 95

NUMBER LINE

- | | |
|--------|-------|
| 1. 71 | 3. -3 |
| 2. 203 | 4. 0 |

RIDDLE ME THIS

Russia

MATH GAMES

Multiply by 2.

- 24
- 40
- 28

FRIDAY

PAGE 97

VOCABULARY

- | | | | |
|------|------|------|------|
| 1. C | 3. B | 5. C | 7. A |
| 2. A | 4. D | 6. B | 8. C |

SATURDAY

PAGE 98

PAGE 99

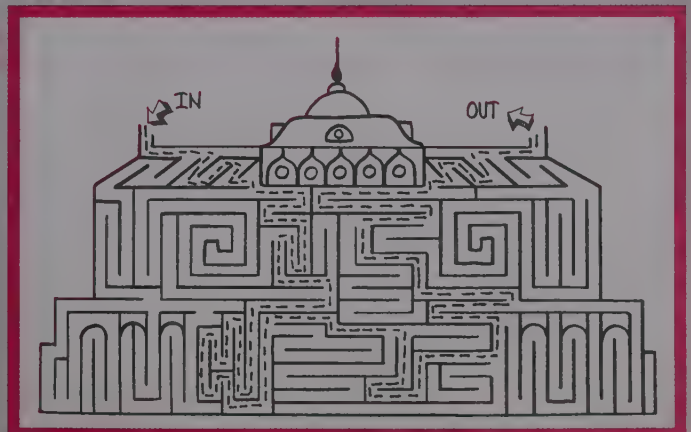
FIX THE FACTS

- | | |
|------|------|
| 1. D | 4. A |
| 2. C | 5. B |
| 3. E | 6. F |

MAZE

CORRECT THE SENTENCES

- Where are you going on vacation, Sally?
- We are going to my grandma's cottage in Minnesota.
- I've heard it gets really, really cold in Minnesota.
- It is cold in the winter, but the summers are warm.



WEEK SEVEN

SUNDAY

PAGE 100

MAKING DEDUCTIONS

1. Karen
2. Victor
3. Jim

SQUARELY SPEAKING

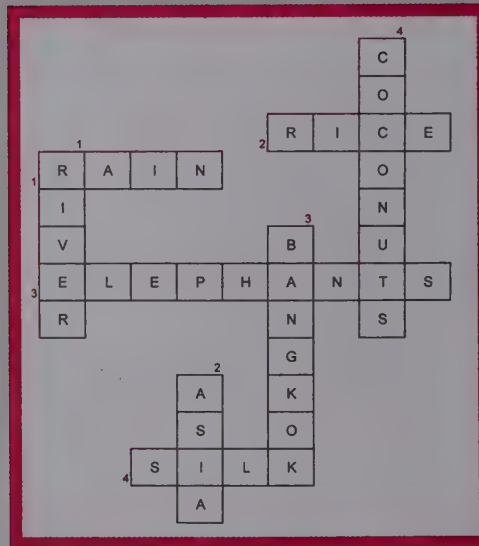
Lithuania

WEEK EIGHT

MONDAY

PAGE 102

CROSSWORD



MEASURING AREA AND PERIMETER

1. A: 19 P: 20
2. A: 15 P: 30
3. A: 25 P: 32
4. A: 21 P: 24
5. A: 16 P: 24
6. A: 25 P: 28

THE RING OF FIRE EXTENSION

Answers will vary, but may include the following: Volcanoes are sources of gems (diamonds and opals) and metals (gold, silver, copper, zinc and lead, among others) and they are often sites for recreation (skiing, hiking and tourism). Underground steam can be used to produce electricity, rock formed from lava can be used to build roads and walls, volcanic ash can be used to form water-resistant concrete and pumice formed from lava can be used to grind and polish materials.

WEDNESDAY

PAGE 107

PAGE 108

ROUNDING

1. 600 3. 800 5. 700 7. 300
2. 500 4. 900 6. 400 8. 800

PAGE 109

RIDDLE ME THIS

Thailand

MATH GAMES

3. 16
4. 14
5. 13

WEEK EIGHT

FRIDAY

PAGE 111

ADVERBS

1. quietly
2. over there
3. so
4. around
5. out
6. tomorrow

- (Possible answers)
7. quickly; slowly
 8. upstairs; over
 9. yesterday; today
 10. quietly; suddenly

SATURDAY

PAGE 112

PAGE 113

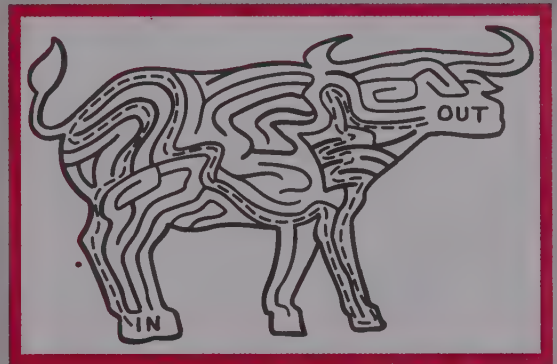
CRAZY CAPERS

A

SUBJECT VERB AGREEMENT

1. ran
2. will go
3. will photograph
4. finished

MAZE



SQUARELY SPEAKING

Guatemala

SUNDAY

PAGE 114

COMBINE THE SENTENCES

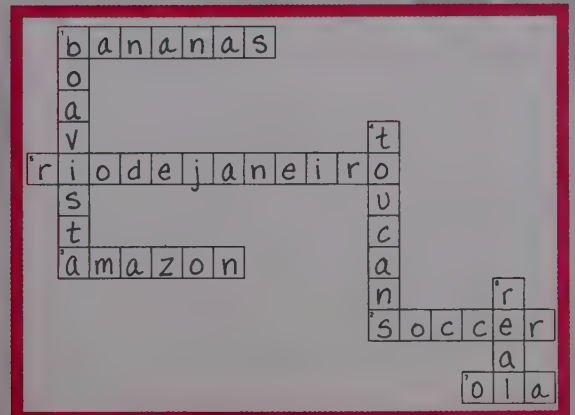
1. Mary, my friend, planted flowers yesterday. OR My friend Mary planted flowers.
2. Joe, my brother, is really tall. OR My brother Joe is really tall.
3. My Uncle Fred is a policeman. OR Fred, my uncle, is a policeman.
4. Bob, my neighbor, mows his lawn on Sunday. OR My neighbor Bob mows his lawn on Sunday.
5. Frances, my cousin, likes to dance. OR My cousin Frances likes to dance.

WEEK NINE

MONDAY

PAGE 117

CROSSWORD



PLACE VALUE

- | | |
|------------|------------|
| 1. 736,238 | 5. 939,547 |
| 2. 194,571 | 6. 491,521 |
| 3. 768,235 | 7. 356,173 |
| 4. 247,128 | 8. 814,629 |

WEDNESDAY

PAGE 121

SHIELD VOLCANO, STEP 1 EXTENSION

tsunami: A huge wave produced by a sudden change in the ocean floor; this change can be caused by an event such as an earthquake or an underwater volcanic eruption.

THURSDAY

PAGE 123

RIDDLE ME THIS

Brazil

MATH GAMES

Add the left and bottom numbers and subtract the number on the right from the sum.

1. 14; 2. 24; 3. 12

FRIDAY

PAGE 125

ADJECTIVES

- huge
- colorful and unusual
- 5,019.33

CHALLENGE

- next week
- the living room
- next morning
- 128.72
- 193.08
- 16.09

SATURDAY

PAGE 127

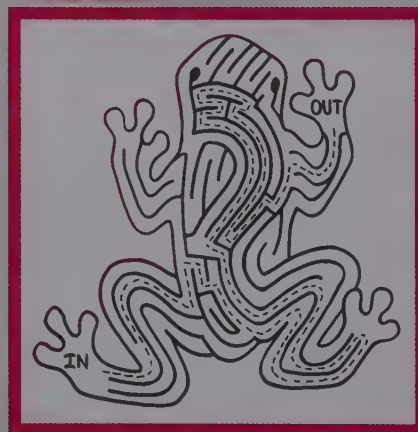
FIX THE FACTS

- | | |
|------|------|
| 1. A | 4. B |
| 2. F | 5. D |
| 3. E | 6. C |

UNSCRAMBLE THE GEOGRAPHY

- | | |
|-------------------|-------------|
| 1. Egypt | 5. China |
| 2. Brazil | 6. India |
| 3. United Kingdom | 7. Italy |
| 4. Australia | 8. Thailand |

MAZE



FACT VS. OPINION

- | | |
|------------|------------|
| 1. Fact | 3. Opinion |
| 2. Opinion | 4. Fact |

SQUARELY SPEAKING

Singapore

SUNDAY

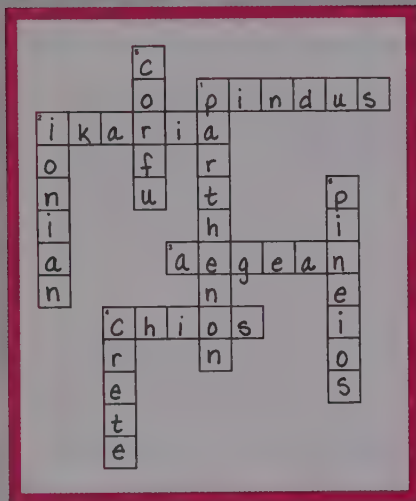
PAGE 128

WEEK TEN

MONDAY

PAGE 131

CROSSWORD



TUESDAY

PAGE 132

MULTIPLICATION AND DIVISION

1. 1,944
2. 71
3. 112
4. 357
5. 3,066
6. 71
7. 1,130
8. 91

THURSDAY

STORY PROBLEM

60 minutes
5:00 p.m.

RIDDLE ME THIS

Greece

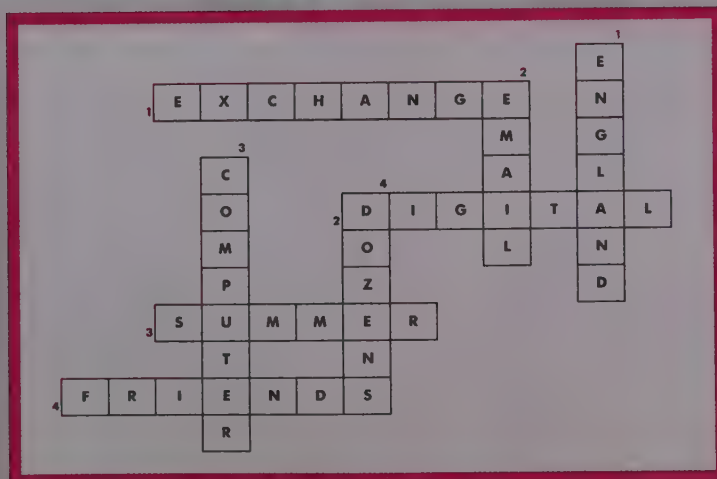
MATH GAMES

1. 35 - Subtract by 5.
2. 54 - Subtract by 6.
3. 74 - Subtract by 8.

FRIDAY

PAGE 133

CROSSWORD



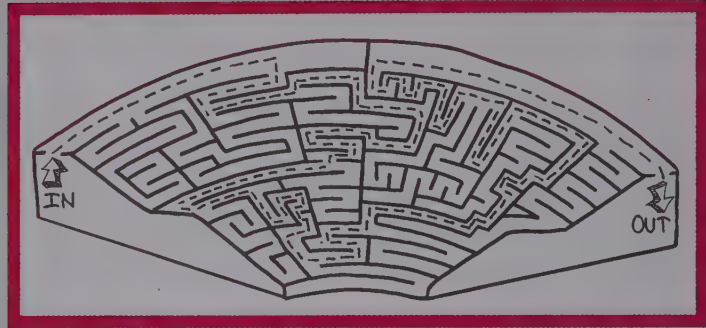
FOLLOW MY LEAD

1. LIZARB
2. BAYLIZARB
3. BAYLIZPOPARB
4. ARBLIZPOPBAY
5. RBLIZPOPBAYA
6. POPY
7. PAOAPAYA
8. PAPAYA

COMPLETE SENTENCES

1. Incomplete
2. Complete
3. Incomplete
4. Complete

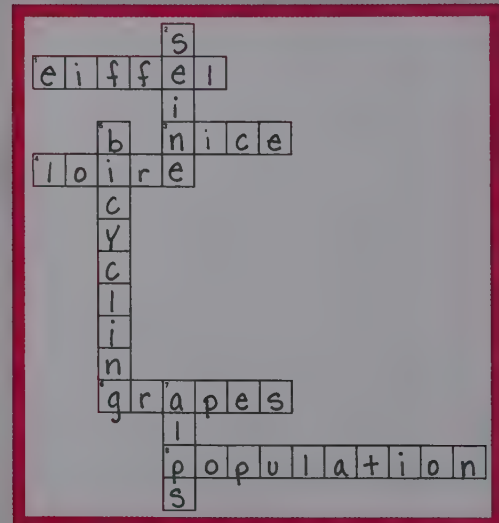
MAZE



SQUARELY SPEAKING

Indonesia

CROSSWORD



FOLLOW MY LEAD

1. farnce
2. garnce
3. garonce
4. garonnce
5. garonne
6. Garonne

LAVA FLOWS

5. Students should note that because the first lava was thinner, it flowed quickly and easily; the second, thicker lava was more difficult to "erupt" and it flowed slowly and covered less distance.

LAVA FLOWS EXTENSION

Answers will vary. Possible answers include:

Rock Form	Characteristics
Pumice	volcanic glass; formed when lava that is full of gas bubbles becomes solid; often light gray; used to polish and grind metals and stones, and finish furniture
Obsidian	volcanic glass; formed when lava cools so quickly that minerals in it cannot crystallize; often black and shiny; ancient people used it for tools, knives and weapons

THURSDAY

MATH QUIZ

1. B
2. A
3. C

RIDDLE ME THIS

France

MATH GAMES

3. 5 squares
4. 2 squares
5. 3 squares

FRIDAY

SEQUENCE OF EVENTS

5, 7, 3, 4, 6, 1, 2, 8

SATURDAY

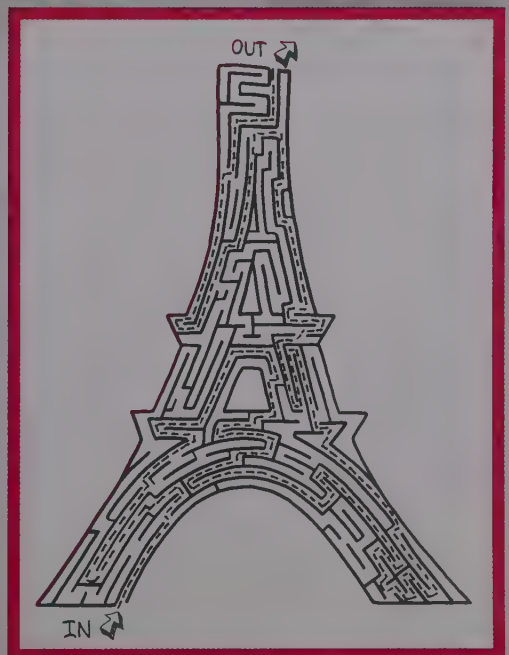
FOLLOW MY LEAD

1. FRANCELOST
2. ANCELOST
3. ONANCELOST
4. ONPANCELOST
5. ONELOPANCST
6. ONELOPAN
7. NOELOPAN
8. NAPOLEON

PREFIXES

1. rewrite
2. misspoke
3. redo
4. prepay

MAZE



WEEK ELEVEN

SUNDAY

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ABBREVIATIONS

1. Dr.
2. Rd.
3. St.
4. U.S.A.

SQUARELY SPEAKING

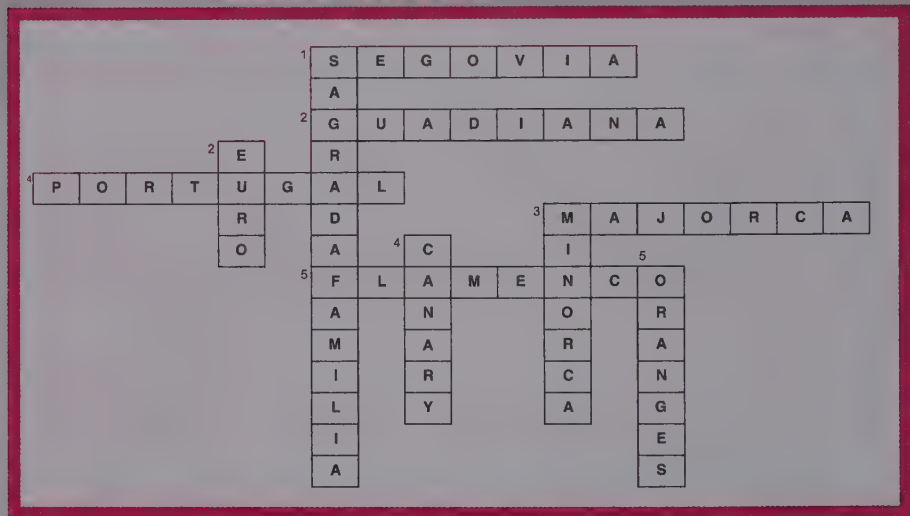
Zimbabwe

WEEK TWELVE

MONDAY

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CROSSWORD



TUESDAY

PAGE 160

STORY PROBLEMS

1. $124 \text{ days} \div 4 \text{ equal parts} = 31 \text{ days}$
2. $112 \text{ people} \times 2 \text{ hot dogs} = 224 \text{ hot dogs}$
3. \$1.33

THURSDAY

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ROUNDING

1. 10,000
2. 8,000
3. 8,000
4. 9,000
5. 4,000
6. 2,000
7. 6,000
8. 4,000

MATH GAMES RIDDLE ME THIS

1. 20
2. 24
3. 48

Spain

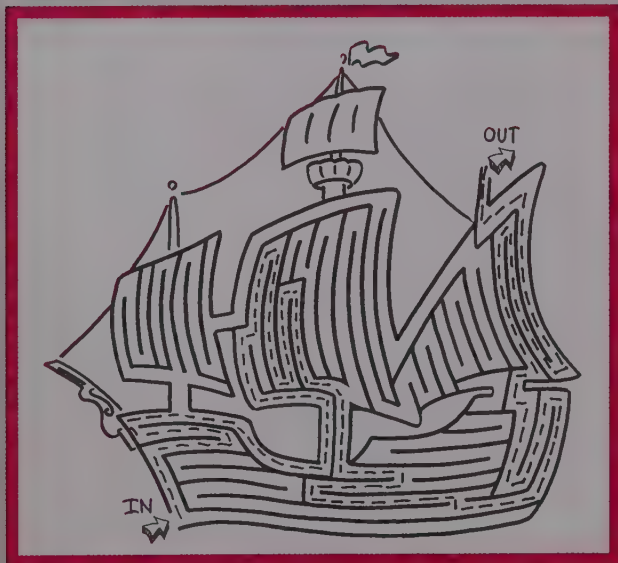
READING COMPREHENSION

1. in the Community Center
2. a mural she painted
3. Tripp makes the introduction and gives Mrs. Radanovich a surprise.
4. Mrs. Radanovich's sister
5. Tripp's uncle, a pilot, arranged her flight.
6. hanging a bulletin board
7. Volunteer of the Month
8. Vega's, Tripp's, and Celeste's
9. They have worked for the good of others and made the neighborhood a better place.

CRAZY CAPERS

Cat

MAZE



SUFFIXES

1. Happiness
2. Careful
3. Powerless
4. Understandable

SQUARELY SPEAKING

United States

Notes

VOLCANOES



MOUNT VESUVIUS

Where: Southern Italy, near the cities of Pompeii & Herculaneum

When: 79 A.D.

Type: Stratovolcano

Facts: The most notorious eruption of Mount Vesuvius occurred in the year 79 A.D. near the cities of Pompeii and Herculaneum. Many of the townspeople didn't have time to evacuate and they became trapped in their homes which were soon buried under 20 feet (6 m) of ash. More than 20,000 people died. Most of them were killed by poisonous gases and clouds of ash. As Pompeii was being buried under ash, Herculaneum was destroyed by an enormous mudslide brought on by the eruption.

Over 1,500 years later, these buried cities were re-discovered by archaeologists. The ash hardened and kept the homes, buildings and objects amazingly preserved. The mud and ash had formed solid casts around the long-ago decayed bodies of the victims. By filling these casts with plaster, the archaeologists were able to create statues of the citizens of Pompeii and Herculaneum. The re-discovery of these cities was one of the greatest archaeological finds of all time.

MOUNT PINATUBO

Where: Philippines

When: April 2, 1991

Type: Stratovolcano

Facts: Before 1991, Mount Pinatubo had been dormant for 600 years. It was considered so safe that the American Air Force constructed a base nearby. But then a crack opened near the mountain's summit on April 2, 1991, and sent ash falling on villages 6 miles (9.7 km) away.

A bulge appeared on the mountain in June and nearly 950,000 people were evacuated from the surrounding areas. On June 12, Pinatubo started having huge eruptions which sent ash 12 miles (19 km) into the air! Ash covered thousands of acres of farmland. Tribal people who had lived along the slopes of the mountain lost their homeland.

Three hundred people died from the eruption and another 500 people died of diseases they caught in the crowded centers they were forced to live in during the eruption.

The eruption of Mt. Pinatubo caused cold weather, storms and floods in North America and Europe in 1992 and 1993.

MOUNT TAMBORA

Where: On an Indonesian island called Sumbawa

When: Spring of 1815

Type: Stratovolcano

Facts: Mount Tambora caused what came to be known as "The Year Without a Summer." It was the deadliest volcano ever.

After several days of erupting, the top 4,200 feet (1280 m) of the mountain were gone—blown away in the huge eruption. Volcanic ash in the atmosphere caused three days of darkness to an area covering 200 miles (322 km). A 1-foot (.3 m) layer of volcanic ash and pumice formed on the surface of the ocean.

Twelve thousand people who lived on the island died. The ash that fell on nearby islands ruined crops and caused 82,000 more people to die from starvation.

Wind blew ash all over the world. So much ash filled the sky that it affected the weather on the other side of the planet. The next year, people in North America experienced the oddest weather they had ever seen—snow and ice all summer!

In Europe, cold weather and heavy rains ruined crops. About 200,000 people died of starvation and a deadly disease called typhus, which spread quickly through the starving and weakened population.

KRAKATAU

Where: Uninhabited Indonesian island of Krakatau

When: May 20, 1883

Type: Stratovolcano

Facts: The loudest and most violent volcano ever was Krakatau. The power of its eruption in 1883 was equal to 26 of the biggest nuclear bombs ever exploded!

Krakatau had not erupted for 200 years, but on May 20, 1883, it began sending ash into the air for hundreds of miles (kilometers) to the north and south. It rumbled and shook for three months. Then on the morning of August 27, it erupted, ripping the island apart. Its explosion was so loud it could be heard in Australia—over 3,000 miles (4828 km) away!

A 115 foot (35 m) giant wave, or tsunami, was formed by the explosion. The tsunami destroyed 163 villages on islands and along the coast of the Java Sea. Over 36,000 people were drowned. This loss of life made Krakatau the second most deadly volcano.

Krakatau has remained active. In 1927, a new island was formed near it called Anak Krakatau which means Child of Krakatau.

VOLCANOES



PARÍCUTIN

Where: Parícutin, Mexico
When: 1943
Type: Cinder Cone
Facts: Not all volcanos start out as mountains. An eruption can take place where no mountain exists at all. In 1943, there was a large number of small earthquakes in the area surrounding Parícutin.

One day, a farmer named Dionisio Pulido was out in his cornfield and noticed a huge crack in the earth. Steam, gases, ash and lava poured out of the crack and the ground shook. The next day, the newly formed volcano was 30 feet (9 m) high. It continued to grow and the next week, it was 500 feet (152 m) high. In a year, it had risen to a height of over 1,000 feet (304 m) and it covered the town of Parícutin! No lives were lost because people had enough time to evacuate, but almost 4,000 people in two villages lost their homes.

Parícutin grew to be over 9,000 feet (2743 m) high, but only remained active for 9 years. It is part of what has come to be known as the Ring of Fire, which is a ring of volcanoes that outline the Pacific Ocean. Approximately 80% of the world's volcanoes are found in this area.

SURTSEY

Where: Atlantic Ocean near the southern coast of Iceland
When: November 14, 1963
Type: Cinder Cone
Facts: In November of 1963, a crewman on a fishing boat off the southern coast of Iceland noticed dark plumes of smoke on the horizon. The crew knew there wasn't any land where the smoke was coming from so they thought perhaps a ship was on fire. As they got closer to the smoke, they saw that it was a volcanic eruption taking place beneath the sea. Soon ash and lava were being shot into the air and an island began to form.

The volcano erupted for several months. When it was done, it was as high as a 55-story building and it covered a square mile. The new island was named Surtsey after the Icelandic god of fire.

Life started showing up on Surtsey shortly after its formation. After a few months, plants began to grow. Three years after it stopped erupting, birds began to nest there. Today, many plants, birds and insects live on the young island.

MOUNT SAINT HELENS

Where: Northwestern Washington (near Seattle), USA
When: May 18, 1980
Type: Stratovolcano
Facts: Mount Saint Helens had not erupted in over 100 years. But in early 1980, scientists began to notice activity that made them think it would erupt in the near future. There were frequent tremors and they noticed that the mountain was forming a large bulge, which was created from magma flowing up toward the surface. They knew these were signs that an eruption might be close at hand, but they weren't sure when it would happen.

Then on the morning of May 18, 1980, Mount Saint Helens erupted with a violent explosion which collapsed the whole side of the mountain. The part torn away was equal in height to the Empire State Building! The lava melted the snow and caused enormous mudslides that raced down the mountain at 90 mph (145 kph), knocking down bridges, trees and houses. These mudslides got up to 65 feet (20 m) deep!

The eruption caused the deaths of 57 people and more than two million animals. More than \$1 billion worth of damage was done.

MAUNA LOA

Where: Hawaii, USA
When: March and April, 1983
Type: Shield Volcano
Facts: Mauna Loa is the tallest active volcano in the world—it rises to over two and a half miles (4 km) above sea level. It's 6 miles (9.7 km) high from its base on the sea floor. If all of Mauna Loa started at sea level, it would be taller than Mount Everest, the tallest mountain in the world! Its crater, named Kilauea, is two miles (3.2 km) wide. It's the largest active crater on Earth.

Mauna Loa is a shield volcano. Thousands of thin layers of lava have built up the broad slopes gradually over many years and many eruptions. The lava in shield volcanoes is thin and flows out of openings called fissures on the volcano's slopes. They are not explosive, but if the gas content is high, they can spout bright fountains of lava that look like fireworks.

In 1950, an eruption burned some homes and buildings in the city of Hilo. The only road out was blocked by lava flows, but people managed to get to safety.

Mauna Loa's most recent eruption occurred in 1983. Visitors to Hawaii can go to the volcano and see the lava flows up close. They're not as violent as other kinds of volcanoes so people can get a very close view.

Certificate of Ownership

This book is property of: _____

My nickname, or the name my friends call me, is: _____

What separates me from everyone else is my: _____

My favorite band or musical group is: _____

My favorite movie is: _____

My favorite hobby is: _____

My best friends are: _____

My favorite books are: _____

Some books I would like to read this summer are: _____

The places I would like to go this summer are: _____

The World Scavengers



Meet Vega:

Hi! I'm Vega. I'm just a regular kid like you. My friends and I are learning that ordinary kids like us can do extraordinary things to help people. Sometimes it seems like all you can do in a bad situation is get mad or feel sad, but we've found that it helps if you try to do something about it. We're discovering that kids can do a lot!

Meet Celeste:

Buenos dias, I'm Celeste. My friends and I are working on an important project. We are recruiting volunteers to help our Community Center. You can do all kinds of things you never thought would be possible if you put your mind to it.



Meet Tripp:

How's it goin'? I'm Tripp. My friends and I have been doing some traveling lately—just around town, but it feels like we've been all over the world! We're learning some really cool stuff and, best of all, we're helping out our Community Center. You can accomplish a lot when you work together with your friends.



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